# RCMA

# NEWSLETTER

## *DECEMBER 1989*

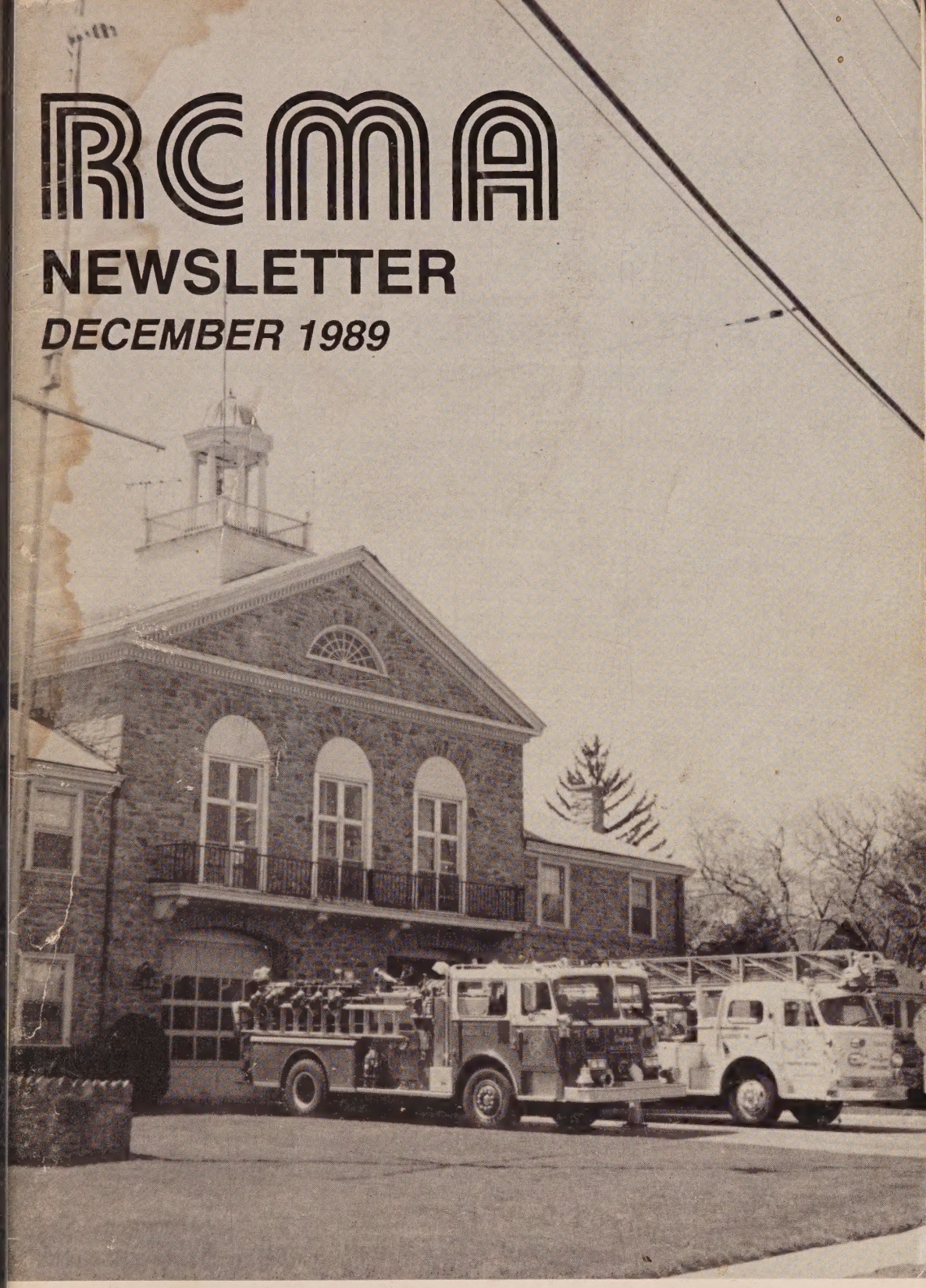

*Photo by Carl Gerosa (NY–117)*

**FIRST NATIONAL AND INTERNATIONAL ORGANIZATION OF MONITOR RADIO LISTENERS**

ASSOCIATION OF NORTH AMERICAN RADIO CLUBS — NARC

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**Silverado, CA 92676**

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**961 Azalea Street**
**Boca Raton, FL 33846**

**FOR YOUR INFORMATION:**

1. Input to the RCMA Newsletter should be mailed to the proper editors, whose addresses are included in the individual column heads. If no particular column seems appropriate, send to RCMA General Manager, P. O. Box 542, Silverado, CA 92676.

2. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address; mail to RCMA General Manager, P. O. Box 542, Silverado, CA 92676.

3. PLEASE INCLUDE YOUR MEMBERSHIP NUMBER WITH ALL CORRESPONDENCE to newsletter editors or club headquarters.

4. If you require a reply when writing to newsletter editors, please include a self-addressed, stamped envelope.

5. Please don't combine in one letter several items that should go to different addresses. Be sure to write on one side only of your paper.

6. If you want to type or word process information you are submitting for publication, you MUST do the following:
   a. make your written line length 7 inches
   b. single space your copy
   c. make your frequency lists single column
   d. do not skip more than one line between topics or paragraphs
   e. do not use an *italic typeface*

7. Your RCMA membership number and expiration date appear on your mailing label.

8. You may join or renew your membership for only ONE year at a time.

9. RCMA accepts paid advertising. For information on rates and mechanical requirements, contact Carol Ruth, RCMA Advertising Manager, P. O. Box 542, Silverado, CA 92676.

**The RCMA Board of Directors supports the policy of not printing certain federal law enforcement frequencies, e.g., Secret Service, FBI, Customs, DEA. Agreement with this policy has been reinforced by a membership survey.**

# RCMA Newsletter

**Issue 167 December 1989**


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**RCMA, Inc.©, P.O. Box 4563, Anaheim, CA 92803**


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## CONTACTING RCMA?

For membership applications or renewals, address changes, inquiries about delivery or renewal problems, write to:

RCMA General Manager, P.O. Box 542, Silverado, CA 92676

Have a comment about RCMA club policy or newsletter content? Write to:

William Mauldin, RCMA General Editor, 961 Azalea Street, Boca Raton, FL 33486

Want a letter published in *Your Thoughts* column? Write to:

RCMA General Manager, P.O. Box 542, Silverado, CA 92676

**Correspondence sent to RCMA's Anaheim P.O. Box will still be answered, but there will be a 4–6 week delay.**

December cover photo: Town of Mamaroneck Fire Department in Larchmont, NY. Pictured is Engine 37 and Ladder 19.

*Photo by Carl Gerosa (NY–117)*


The RCMA Newsletter is published by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, Inc., P.O. Box 4563, Anaheim, CA 92803. Membership dues are $18.50 for U.S. residents. For persons in other countries, the following rates apply: Canada and Mexico—$22.50; Europe—$22.50; South Pacific and Asia—$22.50. These dues are payable in U.S. funds and are subject to change. Information contained herein is obtained primarily from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. RCMA, Inc. does not necessarily recommend or endorse products or services advertised herein. The publication is copyrighted©. Reproduction of any material in this newsletter is prohibited without prior written consent.

## RCMA STATE ASSOCIATE EDITORS

RCMA State Associate Editors are your in-state club representatives. The job of the Associate Editor is to collect information within his state, then verify and combine the material with other contributions from your area. Once a month, the Associate Editor forwards ALL information received to the designated column Staff Editor. The Staff Editor writes the monthly column you read in the NEWSLETTER.

If your state has an Associate Editor, send your contributions and questions to him. He is best equipped to deal with matters within his area, and can probably answer questions of a local nature. Write to him first and BE SURE TO INCLUDE AN SASE.

If your state is not listed (except for California), the position is open for assignment. If you would like to be considered for the volunteer job, send a stamped, self-addressed envelope for an application. Your active, monthly participation is required and expected if you are selected as state Associate Editor.

There is a great deal of satisfaction in being the RCMA Associate Editor representative for your state, and **Associate Editors get a 50% discount on yearly dues**. We are looking for workers, not information collectors. If you are serious about RCMA, consider being an Associate Editor! Typewriters and computer printers are NOT required for Associate Editor assignments.

**NOW—AE's receive a 50% reduction in membership and 1st class mailing of the newsletter**

**Applications are available by sending a stamped, self-addressed envelope to RCMA Managing Editor, 961 Azalea Street, Boca Raton, FL 33486**

### Associate Editor Listing as of October 20, 1899

ALABAMA: ..... David Beck, 422 Laurie Dr., Birmingham, AL 35214
ALASKA: ..... Position OPEN
ARIZONA: ..... Bob Schmulian, 4415 N. Rockcliff Rd, Tucson, AZ 85715
ARKANSAS: ..... Lee Murphy, Rt 3, Box 402–A, Crossett, AR 71635
NORTHERN CALIF: ..... Gary Webbenhurst, 8430 La Riviera Dr, Sacramento, CA 95826
COLORADO: ..... Position OPEN
CONNECTICUT: ..... Stephen Repetto, 42 Glenstone Dr, Vernon, CT 06066–4202
DELAWARE: ..... Position OPEN
DIST OF COLUMBIA: ... Position OPEN
FLORIDA: ..... Randy Kerr, 310–1 SW 62nd Blvd, Gainesville, FL 32607
GEORGIA: ..... Steve Giovanis, 4314 14th St, East Beach, St Simons Island, GA 31522
HAWAII: ..... Position OPEN
IDAHO: ..... George Wight, P. O. Box 732, Groveland, CA 95321
ILLINOIS: ..... Bob Fairburn, P. O. Box 463, Gridley, IL 61744
INDIANA: ..... David A. Nugent, 2542 Birk Dr, Jasper, IN 47546
IOWA: ..... Position OPEN
KANSAS: ..... Steve Jester, 1115 North Park, Wellington, KS 67152
KENTUCKY: ..... Position OPEN
LOUISANA: ..... Jeff Waldrop, 1018 Bee Tree St, Westlake, LA 70669
MAINE: ..... Position OPEN
MARYLAND: ..... William Staubs, 756 221st St, Pasadena, MD 21122
MASSACHUSETTS: ..... Mariner S. Ayer, Jr., 299 Thompson St, Middleboro, MA 02346
MICHIGAN: ..... Richard McLaughlin, 3921 Marland Dr, Lansing, MI 48910
MINNESOTA: ..... Jerry Ensign, P. O. Box 28148, Crystal, MN55428–0184
MISSISSIPPI: ..... Position OPEN
MISSOURI: ..... Michael Redman, P O Box 49, High Ridge, MO 63049
MONTANA: ..... Position OPEN
NEBRASKA: ..... Position OPEN
NEVADA: ..... Fred McGowan, P O Box 879, Las Vegas, NV 89101
NEW HAMPSHIRE: ..... Position OPEN
NEW JERSEY: ..... Richard D. Prail, P O Box 1274, West Caldwell, NJ 07007
NEW MEXICO: ..... Position OPEN
NEW YORK: ..... Joseph Nooney, P. O. Box 30, Valatle, NY 12184
NEW YORK CITY ..... Phil Caruma, 7225 73rd St., Glendale Queens, New York, NY 11385
NORTH CAROLINA: ..... Randy Whaley, 22F Sailsway Dr, Greensboro, NC 27406
NORTH DAKOTA: ..... Position OPEN
OHIO: ..... Oscar J. Mann, Jr., 6800 Mayfield Rd, Mayfield Heights, OH 44124
OKLAHOMA: ..... Jay D. Kruckenberg, Rt. 2, Box 31, Mooreland, OK 73852
OREGON: ..... Al Musgrove III, 2402 E. McAndrews Rd, Medford, OR 97504
PENNSYLVANIA: ..... Keith E. Maydak, 6393 Penn Ave, Pittsburgh, PA 15206
RHODE ISLAND: ..... Position OPEN
SOUTH CAROLINA: ..... Billy Estes, 117 Willard Bouknight Rd, Irmo, SC 29063
SOUTH DAKOTA: ..... Position OPEN
TENNESSEE: ..... Curtis Harbin, P O Box 5576 EKS, Johnson City, TN 37603
TEXAS: ..... Robert Barker, 1801 Wells Branch Pkwy #1630, Austin, TX 78728
UTAH: ..... John D. Parken, 4672 South Deer Creek Rd, Salt Lake City, UT 84124
VERMONT: ..... Dan J. Gilman, 123 Walnut St., Rutland, VT 05701
VIRGINIA: ..... Landon Davis, 2807 Rifle Ridge Rd, Oakton, VA 22124
WASHINGTON: ..... Kenneth E. MacLeod, P. O. Box 2495, Friday Harbor, WA 98250
WEST VIRGINIA: ..... Position OPEN
WISCONSIN: ..... John P. Johnson, 1905 E Lexington Blvd, Eau Claire, WI 54701
WYOMING: ..... Christopher D. Smith, P. O. Box 1229, Ogden Utah 84402

Applications are available by sending a stamped, self–addressed envelope to:
RCMA Managing Editor, 961 Azalea Street, Boca Raton, FL 33486

# CALENDAR

**Send notices of upcoming events for the Calendar section to:**
**RCMA General Manager, P. O. Box 542, Silverado, CA 92676**

Deadline: 1st of the month two months prior to cover date.

Dates for the "**Nov 1989**" Newsletter which hopefully you got in October

Paste up completed : 21 Sept 89
Delivery to printer: 22 Sept 89
Labels to mailer : 6 Oct 89
Newsletters to mailer: 6 Oct 89

## West Los Angeles Chapter

**Contact :** Rick DiFiore (CA-LA-544) (213) 397-6581 or
Hugh Stegman (CA-LA-472) (213) 398-5353
Talk in: 146.925 MHz {-600 PL-2A} Tues 1930 hrs net.

Meetings on the second Wednesday of each month at 7:30 PM, in the front patio of Chris's Pizza, 10105 Venice Blvd.. Los Angeles (213) 838-2151. Nearest major street is Motor Avenue. This is east of the 405 freeway and south of the 10 (get off at Robertson and head west on Venice). Use or monitor 146.925 for talk in.

## Austin Area Radio Listeners Meeting

**Contact** David Litsinger TX -032 441-0650
P.O. Box 17142, Austin, TX 78760

Contact David for time and locations of meetings.

## R.C.M.A. Chicago

**Contact** Ron Kosinski
P.O. Box 528213, Chicago, IL 60652

| | | | |
|---|---|---|---|
| Saturday | November | 18 1989 | 1:00 P.M. |
| Saturday | January | 20 1990 | 1:00 P.M. |
| Saturday | March | 3 1990 | 1:00 P.M. |
| Saturday | April | 21 1990 | 1:00 P.M. |
| Saturday | June | 9 1990 | 1:00 P.M. |
| Saturday | August | 11 1990 | 1:00 P.M. |
| Sunday | August | 26 1990 | Annual picnic & Field day |
| Saturday | October | 13 1990 | 1.00 P.M. |
| Saturday | December | 1 1990 | 1:00 P.M. |

The Chicago Chapter requests that interested R.C.M.A. members send a year's supply of 9 S.A.S.E. plus a $2.00 contribution to the "contact person" listed above. The contribution funds will be used to cover the printing of the newsletter that will be send to all Chicago Chapter members just before each meeting.

Visitors are welcome but please confirm the date in advance.

## Northeast Scanners

**Contact** Les Mattson NJ 187
212 West Broad Street, Paulsboro, NJ 08066

"The Northeast Scanning News" a monthly publication covering the states of New Jersey, New York, Pennsylvania, Delware, Maryland, DC, Maine, Connecticut, Massachusetts, New Hampshire, Rhode Island, and Vermont. Sample copies $2.00. Make checks out to Les Mattson.

## R.C.M.A. for D.C., MD, VA, & DE

**Contact:** Capitol Hill Monitors
Alan Henney (MD 069) 6912 Prince Georges Ave,
Takoma Park, MD 20912
Arnold Miller (MD 054) 407 Foxview Court,
Reisterstown, MD 21136

Local Chapter Newsletter is supplementary to the RCMA and the NSEA newsletters. The CHM newsletter appears as a NESN column (see Northest Scanners section for subscription information). No meetings presently scheduled. Please send information & requests for Baltimore Region to Arnold, and all other areas (including Washington) to Alan. Visitor, traveler & frequency requests are welcome. (please send a SASE).

## R.C.M.A. Minneapolis-St. Paul Area

**Contact:** Chuck Steier MN-008 (612) 927-9253
4820 Hwy 7, Minneapolis, MN 55416

A SASE on file assures notification of chapter activities (tours, gatherings, etc). Non members are welcome to attend.

## Philadelphia Notification Network

**Contact :** Chuck Gysi PA-005
P.O. Box 144-PR, Rosemont, NJ 08556-0144

PNN is a scanner notification group composed of RCMA members in the Philadelphia area, including Pennsylvania, south and central New Jersey and northern Delaware. PNN operates a wide-area UHF repeater system so that participants can notify each other of urgent scanner activity. PNN also holds occasional meetings during the year. Send a S.A.S.E. for information.

## All Ohio Scanner Club A Full Member of ANARC 10TH YEAR 1989

**Contact** David B. Marshall OH-146, Managing Editor
50 Villa Road, Springfield, OH 45503-1036

The All Ohio Scanner Club covers all of Ohio, plus Illinois, Inidana, Kentucky, Michican, Pennsylvania, West Virginia, and Ontario, Canada, plus other areas as well. Members from these and other areas are welcome. The AOSC newsletter also features execellent federal goverment and below 30 MHz utilities columns.

Sample Newsletter $2.00. Membership information for a SASE

## Toledo Area Radio Enthusiasts

**Contact** Ernie Dellinger 6629 Sue Lane, Maumee, OH, 43537
(419)-865-4284

The TARE is a group of radio buffs (SWL & scanners) that meet on the third Thursday of each month at 7:00 PM at Frisch's Big Boy Resturant, 6609 Airport Hwy (St Rt 2 just West of I-475) in Holland, Ohio.

Dec 21th 1989

## R.C.M.A. Wisconsin

**Contact** Scott W. Miller WI-039
122 Greenbriar Drive, Sun Prairie, WI 53590

## NEED RCMA BACK ISSUES?

**1987, 1988 and 1989 issues to date are available until Dec. 31, 1989, at which time 1987 issues will no longer be stored. The following postage rates apply to all orders, and are in addition to the cost of the newsletters.**

**THE COST OF EACH ISSUE IS $1.00**

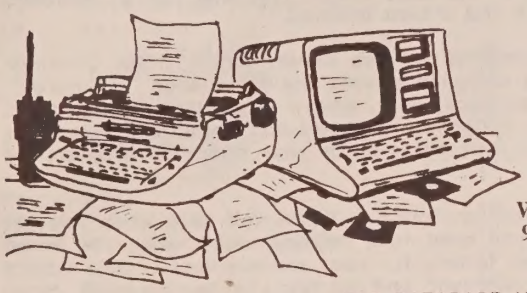
**When ordering, calculate $1 per issue. Then refer to the chart below for the correct amount of postage. (Rates based on lst class USPS.) Address order to RCMA Back Issues, P.O. Box 542, Silverado, CA 92676.**

| # OF ISSUES | AMOUNT OF POSTAGE |
|---|---|
| 1 | $ .85 |
| 2 | $ 1.65 |
| 3 | $ 2.25 |
| 4 thru 8 | $ 2.40 |
| 9 thru 12* | add $ .48 for each issue |

Issues not available:
December '87
December '88
January '89

*Orders shipped at maximum of two years (24 issues) per package.

**PLEASE NOTE: If for any reason the amount of your check or money order is greater than that needed to fill your order, the difference will be applied to your current membership. This applies to any amount under $10: if more than $10, you will receive a refund check.**



## From The CAPTAIN'S DESK

William Mauldin, RCMA General Editor
961 Azalea Street, Boca Raton, FL 33486

### RAC DATABASE UPDATE

The response to the IBM compatible RAC Catalog frequency database program has been overwhelming. It is impressive to see so many scanner hobbyist respond to this effort of obtaining and using one standard database for cataloging frequencies!

Bob Cheek produced the RAC Catalog program as shareware. Shareware is NOT freeware. Bob made a special initial offer for RCMA members to become registered owners of the RAC Catalog for $15. (Those of you that sent $15.00 directly to Bob Cheek are registered owners.) The standard registration fee is $25. Let me explain how this works and why.

The RAC Catalog program is shareware. As shareware, the RAC Catalog program can be downloaded from many computer bulletin boards across the nation. The program is even available as a download on Compuserve. Getting a copy of the program is no problem and costs you almost nothing. Copies are also availble by sending me a disk in a round-trip mailer, a buck for postage, and a self-addressed label.

Bob spent many hours writing this excellent program, not to mention the expense. The Clipper compiler used to write this program cost over $350 alone. The results however are very satisfying. The program is fast, self supporting, and easy to use. There is truly nothing out there that is any better for cataloging frequencies and related information. Again, the initial RAC Catalog program is shareware and costs you nothing if you can download a copy from a BBS. So why spend the $25 to register your copy? Here's why...

First, there will be improved versions of the program in the future. Several of these improvements are in the works now. Additional features, such as online help and an integrated Service Code database, are being added to make the program more flexible and easier to maintain your databases. As a registered owner, you will receive announcements on these improvements. You can then order the updates for a nominal charge to cover media and postage. These improved copies will not be offered to BBS systems as shareware.

Second, with the cooperation of the RAC Catalog users, Bob is planning to build a library of databases and make them available to registered users. Users who make

contributions to the library will receive free updates of the library. Registered users will be notified periodically of the databases available in the library.

I am a registered owner and user of the RAC Catalog program myself. I strongly encourage those of you who already have copies of the RAC IBM compatible program to register with Bob. Like the Newsletter, RAC needs your support to be a viable and useful service to the computer using RCMA member.

## STANDARDS ARE IMPORTANT

Whether we use a notebook, a computer program or whatever to catalog our collection of frequencies, as a group we should note standard items, in a uniform manner with like identifiers. In using "standards", when you send information to an editor or just swap notes with a friend, the information will be presented in a complete, easy to understand, uniform manner.

Police Call has long been accepted as the standard of the hobby. Many of the things that Gene Hughes has done over the years in his publication have set or established the "standards" of the hobby. For example, RCMA Public Safety columns are established along the geographic boundaries of Police Call. The RCMA Public Safety Southeast column covers Florida, Georgia, South Carolina, North Carolina, Virginia and West Virginia. Police Call Book 6 covers this same area. This was not an accident. Gene Hughes set the standard and RCMA and others followed.

When the RAC computer program was designed by Bob Cheek, former RCMA Computer Corner Editor, the "blanks" were again designed around the established "standards". In the program you have blanks for frequency, user, site or city, state, user service, and comments. Everything in frequency collecting is mostly self defaulting except for "user service codes". What you use in your notes or in your computer program for user service code is most important.

All of us know that user code "P" stands for Police in Police Call. But, when you get into massive collections of frequencies, you need more detailed identifiers. The initial version of the RAC program accepts two letters for user service codes. The letters PP stand for Police, LG for Local Government and so on. In talking with other scanner club leaders, we have found that U.S. Government user service codes are not two letters. In the U.S. Government listings, three letters are used. For an example, UPO stands for a radio system used by the U.S. Postal Service.

The next edition of the RAC Frequency Database Program will allow three letter user service codes to be entered. This will allow for proper coding for those of you who catalog federal government information. It will also allow for better cataloging of all other services. For example, PPS will identify State Police users.

As part of this column, I am listing the accepted "standard" FCC two letter identifiers for radio users. I am also listing some new three letter service identifiers which I am hoping will be accepted as "standard" by all frequency collectors. The new three letter identifiers are very limited. As with any new effort of this type, we must have agreement on the standards we are setting, or the entire effort will die from complication.

First, here is a complete listing of the FCC Service Codes and a listing of the Federal Government and Military Service codes. These are "standard". For those of you using the RAC program with the two letter service codes, please use the FCC listing for your entries.

### FCC SERVICE CODES

| | |
|---|---|
| | AVIATION |
| AA | Aviation Auxiliary |
| AC | Civil Air Patrol |
| AD | Aviation Developmental |
| AF | Aeronautical and Fixed |
| AG | Aircraft |
| AR | Radionavigation |
| AX | Areo. Mobile Satellite |
| | BROADCAST |
| BA | Broadcast Remote Pickup (RPU) |
| BF | FM Broadcast |
| BI | International Broadcast |
| BS | AM Broadcast |
| BT | TV Broadcast |
| | COMMON CARRIER |
| CA | Individual Mobile Radio |
| CC | Int'l Fixed Public Control |
| CD | Domestic Mobile Telephone |
| CE | Digital Electronic Messages |
| CF | Point To Point Microwave |
| CG | Domestic Public Air-Ground |
| CI | International Public Fixed |
| CL | Cellular Telecommunications |
| CM | Multi Point Distribution |
| CO | Offshore Radiotelephone |
| CP | Int'l Fixed Public Press |
| CR | Rural Radio |

| | |
|---|---|
| CS | Int'l Fixed Satellite |
| CT | Local TV Transmission |
| CX | Domestic Fixed Satellite |
| | DISASTER |
| DX | Disaster |
| | AMATEUR |
| HA | Amateur |
| HR | RACES |
| HS | Amateur Satellite |
| | INDUSTRIAL |
| IB | Business |
| IF | Forest Products |
| IM | Motion Picture |
| IP | Petroleum |
| IR | Industrial Radiolocation |
| IS | Special Industrial |
| IT | Telephone Maintenance |
| IW | Power and Water |
| IX | Manufacturing |
| IY | Press Relay |
| | LAND TRANSPORTATION |
| LA | Automobile Emergency |
| LI | Interurban Passenger |
| LJ | Interurban Property |
| LR | Railroad |
| LU | Urban Passenger |
| LV | Urban Property |
| LX | Taxicab |
| | RADIOLOCATION |
| RS | Radiolocation |
| | PUBLIC SAFETY |
| PF | Fire |
| PG | State Guard |
| PH | Highway Maintenance |
| PL | Local Government |
| PO | Forestry Conservation |
| PP | Police |
| PS | Special Emergency |
| | MARITIME |
| MA | Marine Auxiliary |
| MC | Coastal |
| MK | Alaska |
| MR | Marine |
| MX | Maritime Mobile Satellite |
| | RADIO ASTRONOMY |
| RA | Radio Astronomy |
| | STANDARD FREQUENCY |
| SF | Standard Frequency |
| SM | Indust., Scientific, Medical |
| | CABLE TELEVSION |
| TR | Cable Television Relay |
| | EXPERIMENTAL |
| XC | Experimental Contract |
| XD | Experimental Developement |
| XE | Experimental Export |
| XR | Experimental Research |
| | PERSONAL RADIO |
| ZA | General Mobile Radio Service |
| ZC | Radio Control |
| ZD | Citizens Band |
| | SPECIALIZED MOBILE RADIO |
| | (800 MHz SYSTEMS) |
| | CONVENTIONAL SYSTEMS |
| GB | Business |
| GC | Motor Carrier |
| GO | Other Services |
| GP | Police and Fire |
| GT | Taxicab |
| GX | Mixed Services |
| | TRUNKED SYSTEMS |
| YB | Business |
| YC | Motor Carrier |
| YO | Other Services |
| YP | Police and Fire |
| YT | Taxicab |
| YX | Mixed Services |

## FEDERAL GOVERNMENT AND MILITARY SERVICE CODES

| | | | |
|---|---|---|---|
| UAC | Army Corpes of Engineers | UAF | Air Force |
| UAM | Marines | UAP | Civil Air Patrol |
| UAR | Army | | |
| UBB | Bonneville Power Administration | | |
| UBC | Bureau of Customs | | |
| UBF | Bureau of Sport Fisheries and Wildlife | | |
| UBG | Geological Survey Bureau | | |
| UBI | Bureau of Indian Affairs | | |
| UBL | Bureau of Land Management | | |
| UBM | Bureau of Mines | | |
| UBR | Bureau of Reclaimation | | |
| UBS | Southwestern Power Administration | | |
| UBW | International Boundary And Water Commission | | |
| UCE | Environmental Research Laboratories | | |
| UCF | Maritime Fisheries Service | | |
| UCG | Coast Guard | | |
| UCM | Maritime Administration | | |
| UCO | Ocean Survey | | |
| UCP | National Capitol Police | | |
| UCW | National Weather Service | | |
| UDA | Department of Agriculture | UDC | Department of Commerce |
| UDD | Department of Defense | UDE | Department of Energy |
| UDH | Department of Health and Human Services | | |
| UDI | Department of Interior | UDJ | Department of Justice |
| UDL | Department of Labor | UDS | State Department |
| UDT | Department of Treasury | UDX | Department of Transportation |
| UED | Drug Enforcement Administration | | |
| UEP | Environmental Protection Agency | | |
| UFA | Federal Aviation Administration | | |
| UFB | Federal Buruea of Investigation | | |
| UFC | Federal Communications Commission | | |

| | |
|---|---|
| UFE | Federal Emergency Management Agency |
| UFN | Air National Guard |
| UGF | Foerestry Service |
| UGS | General Services Administration |
| UHA | White House Communications Agency |
| UHD | Housing and Urban Developement |
| UHS | White House Staff |
| UIN | Immigration and Naturalization |
| UNO | United Nations |
| UNP | National Park Service |
| UNR | nuclear Regulatory Commission |
| UNS | National Aeronautics and Sapce Administration |
| UPO | Postal Service |
| URC | Interagency Radio Advisory Commission |
| URN | Army National Guard |
| URS | Internal Revenue Service |
| USC | Soil Conservation Service |
| USM | Miscellaneous Federal Government |
| USN | Navy |
| USS | Secret Service |
| UTS | National Transprotation Safety Board |
| UTV | Tennessee Valley Authority |
| UVA | Veterans Administration |

Next, I have added a few of the three letter codes that we will be working with in the expanded RAC and other database cataloging programs. This list was submitted by Dave Marshall of the ALL OHIO club. During the weeks ahead we will be working to design a three letter code for services we have missed in this new "standard" listing. If you have any suggestions, please pass them along. Once we published the completed list, it will be difficult to make any changes. Here is the list that Dave submitted:

THREE LETTER CODES TO FURTHER DEFINE FCC SERVICE CODES

| | |
|---|---|
| IW | POWER AND WATER |
| IWE | Electric |
| IWG | Gas |
| IWW | Water |
| | |
| PP | POLICE |
| PPS | State Police |
| | |
| PS | SPECIAL EMERGENCY |
| PSB | Buses |
| PSV | Veterinary |

| | |
|---|---|
| IB | BUSINESS |
| IBA | Airlines |
| IBC | Construction |
| IBE | Schools |
| IBM | Medical-Hospitals & Ambulances |
| IBR | Radio Communications Companies |
| IBS | Security |
| IBT | Cable TV |
| | |
| PL | LOCAL GOVERNMENT |
| PLS | Street and Road Maintenance |
| PLW | Water and Sewer |

WE NEED YOUR HELP FOR 1990

The Associate Editor program has 17 openings as this article is being written. If you live in Alaska, Colorado, Delaware, DC, Hawaii, Iowa, Maine, Mississippi, Montana, Nebraska, New Hampshire, New Mexico, North Dakota, Rhode Island, South Dakota, or West Virginia, your state is OPEN and available for assignment! As already announced, by becoming the Associate Editor for any one of these states, you get a 50% reduction on your annual membership fee, plus your Newsletter magazines are mailed to you via first class mail. That is a good deal, believe me!

We need active, devoted members to serve in these AE positions. If you have been thinking about making application for any of the above openings, I strongly urge you to write me for an application today. In order to improve the RCMA coverage nation-wide, I will be working most of these positions next month. You must apply now if you want ANY AE position shown as OPEN.

We need your input for 1990! By serving as an active AE, you can help your state grow and offer more input for the enjoyment of all. I need your help. Please write me for an application. Remember, AE personnel ARE NOT required to have a typewriter or computer. You can forward information to the staff editors in any form. All that is required is...activity. And, activity does breed activity! And, by being the state AE for your state, members are encouraged to send YOU their data contributions. You get more information and you get it first!

### NEXT MONTH IS SURVEY TIME AGAIN!

Next month we will be printing the RCMA Annual Survey. This is your big chance to let us, the staff, know what you want to see for 1990. Major changes result from membership input. Watch for the centerfold pull-out form next month! We need and want your input. You pay a lot for your annual membership. Next month will be your big chance to truly get more for your money!

### EDITORS ARE REMINDED...

Staff column editors are reminded NOT to print the FULL name of any RCMA member who contributes information for the NEWSLETTER unless the member clearly indicates that they approve of having their name printed. RCMA Policy states that ONLY the first name and membership number will be printed UNLESS permission is granted by the member. Please comply with this Policy. Members, tell the Editor IF you want your full name in print.

### WANT TO CONTACT OTHER RCMA MEMBERS?

CONTACT is a column designed just for this purpose! You can use this column to ask other members in your monitoring area to write or phone you. RAC program users can exchange data by placing ads, asking for what you want. If you are going on a trip and need INFO from someone on that listening area, place an ad. The column heading gives details and instructions! This is a FREE service of your club. Take the time to read the column. Use it yourself for things that you need.

### GET LONGER BATTERY LIFE FROM YOUR REGENCY MX-4000 OR MX-4200 SCANNER

by Bob Parnass, AJ9S, IL-267

The discontinued Regency MX-4000 and MX-4200 are battery operated, 20 channel scanners manufactured in Japan by AOR. Both scanners contain a low battery warning circuit which disables the scanner when the battery voltage falls below a preset level.

A freshly charged battery pack should last at least 5 hours before needing a recharge. Ron Smithberg, of Joliet, IL, complained of getting only 2 hours use from a set of freshly charged NiCd batteries in his MX-4200. This article describes how we increased his usage to over 7 hours between charges.

Both MX models are powered by a pack of 4 AA sized NiCd batteries. The battery pack is nominally 4.8 volts and has a rated capacity of about 500 mAh. The scanner draws about 100 mA when squelched. A good rule of thumb is that a NiCd should be recharged when its voltage falls below 1.0 volts per cell. Using this heuristic, the MX-4200 battery pack should be recharged when it falls below 4.0 volts under load.

The low battery circuit on Ron's MX-4200 was misadjusted to shut down the scanner prematurely when the battery voltage fell below 4.7 volts. I readjusted the low battery threshhold to 4.0 volts.

You can use the same procedure, but you will need the following equipment:

- An adjustable, regulated DC power supply, capable of furnishing between 3 and 5 volts at 500 mA or more.
- An accurate means of measuring voltage from the power supply. A digital voltmeter with an accuracy of 5% or better is preferred.
- A #1 Phillips screwdriver.
- A Small, slotted screwdriver or alignment tool.

The low battery sensor threshhold is controlled by a potentiometer. Here's how to readjust the sensor to 4.0 volts:

1. Turn the scanner off.
2. Connect a digital voltmeter to a well regulated DC power supply and adjust the supply to 5.0 volts.
3. Connect the power supply to the snap terminals on the scanner that would normally connect to the battery pack. *Be sure to observe proper polarity.* Connect the positive lead of the supply to the female snap, and the negative lead to the male snap.
4. Turn the scanner on.
5. As you watch the scanner's LCD display, gradually reduce the power supply voltage until the scanner's low voltage warning begins to flash.
6. Read the digital voltmeter. If it reads between 3.9 and 4.0 volts, no further adjustment is required, just disconnect the supply and reconnect the battery pack.
7. Otherwise, turn off and disconnect the power supply, and continue.
8. Turn the scanner upside down, and place it on a soft cloth so as not to scratch the case.
9. Remove the bottom tilt foot from the scanner.
10. Remove the battery pack.
11. Remove the 4 Phillips screws holding the case bottom, then remove the case bottom.
12. Reconnect the power supply to the scanner and set it to 4.0 volts.
13. Turn the scanner on.

14. Locate a small gray potentiometer on the printed circuit board. The potentiometer looks something like a gray plastic Phillips screw head. If the scanner front panel is facing you, the pot will be just behind the keyboard on the left side. (Don't confuse this pot with the 3 pots along the right edge of the board. The battery voltage sensor pot is not near any other pot.)
15. Slowly adjust the potentiometer to the threshhold at which the low battery indicator begins to flash.

This procedure worked with great success on an MX-4200, and its battery life was increased from 2 to 7.5 hours.

I would like to thank Rick Meyer, WB9UFL, for finding the potentiometer in his MX-4000, and Ron Smithberg for letting me experiment with his MX-4200.

# AIRCRAFT

**Civilian: Send private, commercial, firefighting and law enforcement aircraft frequencies in the 108-136 MHz range and frequencies in other bands associated with civilian aircraft or airports.**
**Military: Send information and frequencies for military aircraft in the 118-140 MHz and 225-400 MHz bands and frequencies in other bands associated with military aircraft or aircraft support-related frequencies at Naval, Coast Guard, and Marine Air Stations, Army Air Fields, and Air Force Bases.**
**Send information, questions, articles, and tips related to aircraft monitoring to:**

**Darrel Charest, 3420 Trenary Lane, Colorado Springs, CO 80918**

**Firefighting and law enforcement aircraft freqs and airport security freqs are welcome in this column and in the Public Safety columns. Civilian and military HF SSB freqs are OK when handed off to or from ARTCC controllers; otherwise, send to the Below 30 MHz column. All air show associated frequencies are fair game. Other non-aircraft-related military freqs go to Federal Government and Military column.**

If you would like your full name printed in the column, please state this in your letter. Otherwise only your first name and membership number will be used to acknowledge your contribution.

As always your frequencies, suggestions, comments, questions, and articles are appreciated and make the task of preparing the column much easier.

Just after Labor Day, Keith, MO-117, toured the NORAD facility in Colorado Springs and reported the equipment and capability "Boggles the mind." Next year he plans to make a similar visit to the SAC underground command post at Offutt AFB in Omaha, Nebraska. Keith included a list of frequencies in his letter as well.

From Ohio, Gary, OH-213, reported on Cleveland's 60th airport anniversary air show. With his BC-200XLT and earphones (to conserve battery power), Gary spent two days viewing the formula one races and show performances. Using his scanner to cue him, Gary video taped the demonstration with very good results.

These are recent frequency changes reported bys Danny, NM-018.

| | |
|---|---|
| American Dispatch, Ft Worth | 129.70 |
| Northwest Dispatch | 130.70 |
| Continental Ops, El Paso | 129.925 |

Danny asked for the U.S. Air company enroute frequency. I couldn't help, but if you can, please write.

An interesting New York Times article from Rickey, NJ-001, reports on some of the air traffic control problems in Europe. Procedural differences were resolved years ago with the advent of ICAO - International Civil Aviation Organization. Yet each nation develops its own standards for radar and communications equipment, preventing the uniform transfer of information from one center to another. Even though some efforts are underway toward standardization, it will not happen soon. In the meantime look for more and longer delays on continental European flights.

Roger, MN-052, is expecting to receive a schedule for the USAF Thunderbirds as soon as it is completed, and will forward us a copy. We would like to include the program in the column before the 1990 performances begin.

Another NEWS FLASH from Wisconsin by Daniel, WI-030, includes an detailed list for Milwaukee. Dan reports every channel on the listing has been monitored or otherwise verified.

Christopher, CALA-775 has found monitoring the UHF military band enjoyable and interesting. With his Pro-2004 and outdoor discone antenna Chris gets excellent reception. Now he would like to extend his monitoring to the HF band and asked for suggestions on receivers covering this spectrum.

From Portland, Maine Gary, ME-019, mailed a complete list for Portland International Airport.

If you owned an airport where real estate values far exceeded that of the airport landing area, would you maintain the airport or sell to real estate developers? And that was the issue in the Huntington Beach News forwarded by Dan, CAOR-275. While we lose small airports to developers, I would find it very difficult to refuse one of these lucrative offers if it were being extended to me.

While monitoring the aircraft band, Curtis overheard frequent references to TRSA and code 1200. And what is their significance in air traffic control? TRSA is the acronym for Terminal Radar Service Area. Most TRSAs are being converted into ARSAs - Airport Radar Service Areas. For monitor listeners there is no real difference. For pilots there are major changes. Within a TRSA, compliance with some ATC procedures was optional. Within the ARSA compliance is mandatory.

Code 1200 is the proper setting for aircraft flying in visual flight rules NOT under radar control. This provides a margin of safety for all aircraft informing the controller this 1200 code is an aircraft and not a car, bus, or train which may appear on radar as a moving target. Moreover, with an encoding transponder, the altitude appears on the radar display. Code 7700 is used during an emergency and 7600 indicates the aircraft has experienced radio failure. Both of these codes flash on the radar display to gain the controllers attention and usually sound an audible alarm as well.

Our General Editor mailed an article from "Professional Pilot" reporting on the purchase of a new fleet of helicopters by the State of Maryland. These Aerospatiale 365N-1 Dauphin 2 machines are designed and manufactured by the French and used by the State Patrol. Several comments in the article came as a mild surprise. First, these helios are equipped with state of the art electronics for navigation and communications. Very high ticket items when buying an aircraft. Even more amazing is the fact they are dispatched and tracked statewide by a flight following system known as Syscom (systems communication center). The helicopters are so equipped their position is continually updated on electronic maps by readings from the aircraft. In addition, Syscom knows from coded transmissions the mission of the helios so that if an emergency arises they can immediately divert airborne units to the scene!

Not mentioned in the article is the cost of these exotic machines. If you have to ask, then you can't afford one. In any case the State of Maryland and its highway patrol seem well equipped to handle any contingency. Look for more details on this subject in Public Safety Northeast in a later issue of the Newsletter.

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These are channels monitored at Cleveland Air Show By Gary, OH-213.

| Lakefront Airport | | | |
|---|---|---|---|
| Tower | 124.30 | Rayband Gold Team | 122.925 |
| Ground | 121.90 | Bob Hoover Sabreliner | 123.05/123.40 |
| ATIS | 125.25 | Golden Knights Team | 123.475 |
| Unicom | 122.95 | Showtime Control | 125.85 |
| | | Show Coordinator | 154.57 |
| | | Metro Life Flight | 155.385 |
| | | Judges Formula 1 Racers | 156.425 |
| Military channel used by Harrier, B1, F-15 and F-14 | | | 319.1 |

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From Daniel, WI-030 for the Milwaukee area.

| General Mitchell Airport | | Mitchell Contd | | Chicago ARTC Center | |
|---|---|---|---|---|---|
| Tower | 119.10/325.8 | 119.65 | Dept | 132.30 | 133.60 |
| Ground | 121.80/348.6 | | | 125.10 | 127.50 |
| Clrnc | 120.00 | Racine | | Airlines | |
| Apch/Dept | 118.60 | 120.15 | | American | 129.325 |
| Apch/Dept | 123.80 | Kenosha | | Continental | 129.90 |
| Apch/Dept | 127.85 | 118.60 | | Eastern | 130.70 |
| Apch | 126.50/307.0 | West Bend | | Midway | 131.15 |
| Apch | 125.35 | 124.75 | | TWA | 129.85 |
| Apch | 118.00/379.8 | | | United | 129.30 |

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For Portland Maine International Airport from Gregory, ME-019.

| | | | |
|---|---|---|---|
| Tower | 120.90 | ATIS | 119.05 |
| Ground | 121.90 | Unicom | 123.50 |
| Apch | 124.05 | Unicom | 122.95 |
| Apch N | 125.50 | Departure | 121.65 |
| Apch S | 119.75 | Snow Plow | 158.88 |

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These are NORAD frequencies provided by Keith, MO-117.

| | | | | | |
|---|---|---|---|---|---|
| 228.7 | 233.6 | 238.7 | 239.2 | 254.2 | 260.8 |
| 264.6 | 264.9 | 270.2 | 273.4 | 276.1 | 278.4 |
| 292.8 | 318.4 | 338.1 | 361.8 | 364.2 | 264.9 |

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From Bill, MI-031 for the Detroit Metro area.

| | | | |
|---|---|---|---|
| 118.40 | Wayne Tower | 129.325 | American Airlines |
| 118.95 | Wayne Departure | 129.35 | ARINC |
| 119.45 | Wayne Ground | 129.40 | United Airlines |
| 120.00 | Willow Run Tower | 129.425 | United Airlines |
| 120.15 | Wayne Departure | 129.425 | United Parcel Service |
| 120.65 | Wayne Clrnc Del | 129.50 | Delta Airlines |
| 120.75 | Wayne ATIS | 129.55 | Delta Airlines |
| 121.30 | Wayne Tower | 129.60 | Delta Airlines |
| 121.80 | Wayne Ground | 129.70 | Wright Air |
| 121.90 | Detroit City Ground | 129.85 | American Airlines |
| 122.85 | Ford Multicom | 130.10 | Delta Airlines |
| 123.05 | Wayne Life Flight helio | 130.125 | Swissair |
| 123.10 | Civil Air Patrol | 130.15 | BOAC |
| 123.30 | Univ. of Michigan | 130.25 | American Airlines |
| 124.05 | Wayne Apch | 130.40 | TWA Airlines |
| 124.25 | Wayne Apch | 130.60 | American Airlines |
| 124.55 | Wayne ATIS | 130.625 | American Airlines |
| 124.70 | Windsor (Ontario) Tower | 130.65 | Military Airlift Command |
| 124.90 | Wayne Apch/Dept | 130.70 | United Airlines |
| 125.15 | Wayne Apch | 130.85 | Emery Air Freight |
| 126.85 | Wayne Apch/Dept | 130.95 | Eastern Airlines |
| 128.35 | Cleveland ARTC Center | 131.05 | Pan American |
| 128.75 | Wayne Apch | 131.10 | Northwest Airlines |
| 129.025 | American Airlines | 131.25 | Delta Airlines |
| 129.10 | TWA Airlines | 131.45 | Delta Airlines |
| 129.20 | American Airlines | 131.45 | Northeast Airlines |
| 129.225 | TWA Airlines | 131.70 | Northwest Airlines |
| 129.30 | United Airlines | 131.825 | Flying Tiger |
| 131.85 | ARINC | 131.90 | Delta Airlines |
| 131.925 | Federal Express | 131.95 | Delta Airlines |
| 132.00 | Goodyear Blimp | 132.15 | Chicago ARTC Center |
| 132.25 | Wayne Apch | 132.925 | Cleveland ARTC Center |
| 134.50 | Windsor ATIS | 139.70 | Selfridge TAC |
| 141.80 | Selfridge TAC | | |

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These channels are from Massachusetts State Aero Chart and sent to us by Peter, MA-155.

| Bedford | | Beverly | | Chicopee | |
|---|---|---|---|---|---|
| Tower | 118.50 | Tower | 125.20 | Tower | 118.35 |
| Grnd | 121.70 | Grnd | 121.60 | | |
| ATIS | 124.60 | ATIS | 118.70 | Hyannis | |
| | | | | Tower | 119.50 |
| | | | | Grnd | 121.90 |
| | | | | ATIS | 123.80 |

AIRCRAFT continued

| Lawrence | |
|---|---|
| Tower | 120.0 |
| Grnd | 124.3 |

| Marthas Vineyard | |
|---|---|
| Tower | 121.40 |
| Grnd | 121.80 |

| New Bedford | |
|---|---|
| Tower | 118.10 |
| Grnd | 121.90 |
| ATIS | 126.05 |

| Norwood | |
|---|---|
| Tower | 126.00 |
| Grnd | 121.80 |
| ATIS | 119.95 |

| Westfield | |
|---|---|
| Tower | 118.90 |
| Grnd | 121.70 |
| ATIS | 127.10 |

| Worcester | |
|---|---|
| Tower | 120.50 |
| Grnd | 121.90 |
| ATIS | 126.55 |

| Boston Logan | |
|---|---|
| Tower | 119.10 |
| Grnd | 121.90 |
| ATIS | 135.00 |

Keep your scanner warm and eggnog cool.

73s 'til next year.

# BEGINNER'S CORNER

**If you are new to monitoring or have a question about something you don't understand, please write to me at the address given below, and I'll try to answer you. When posible, your questions and answers will be printed. For those who wish an immediate reply, please send a self-addressed, stamped envelope.**

**Edward Gleason, 2513 Bucida Drive, Sarasota, FL 34232**

Hello RCMA members! Welcome to the December edition of Beginner's Corner. Let me wish everyone a peaceful, happy and safe holiday season. Please, be careful on the roads. As you have heard (or will hear) on your scanners, the number of automobile accidents increases markedly during holidays.

For starters this month, let me recap the idea I touched on last month—a Listener Tape Exchange program. Our New Products Review Editor, Curtis Harbin has already logged some time on project and deserves many thanks. What I envision would be for everyone interested to write to me with their interests (e.g., public safety, aircraft, railroads, etc.), I'll log these into a database program and sort everyone's interest by category, location or some other sort. The goal of the program is to facilitate the exchange of (cassette) tapes between members. The exact vehicle for the exchange has not been determined at this time. Nor has a method been decided for conveying member's interests to me. As soon as these items (and a few others), get ironed out I'll print the details in the column. I hope to have this accomplished by next month.

Next, while in touch with Curtis, he brought up the topic of maintenance agreements for scanners. Curtis states that he has a maintenance agreement for his PRO-34 which cost him $60 and covers 5 years. Since Curtis works in the industry and has a working knowledge of the costs involved in repairs, he advocates maintenance agreements (a/k/a extended warranties) for all high dollar equipment; especially the current crop of expensive (and complex) programmable scanners. Many times one trip to the repair shop will return your investment.

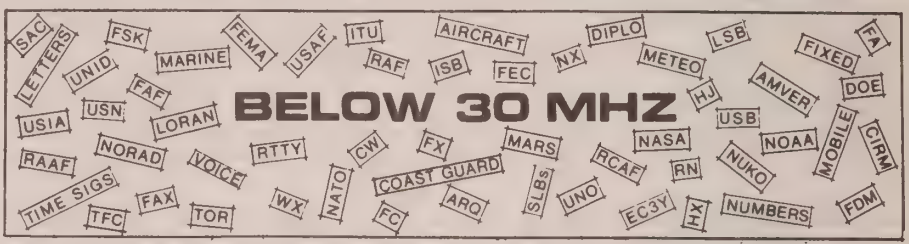
I think that I should point out that maintenance agreements may not be for everyone. As far as I know manufacturers do not honor such agreements if the equipment has been tampered with, i.e., modifying a machine by performing cellular restoration. Also, if you don't anticipate owning your scanner for any length of time (for example you plan to sell your scanner and/or trade up as soon as the next generation of scanner comes along), a maintenance agreement may not be a cost effective investment. Keep in mind that purchasing a maintenance agreement works under the assumption that the equipment is going to experience a malfunction. Under certain conditions, any equipment will break down. What you have to establish is whether the use you anticipate putting this equipment through along with the period of time over which you will be using it, will expose the equipment to conditions which will bring about malfunction. If you are even unsure whether your scanner will meet any of this criteria, I would recommend a maintenance agreement, at least on a limited basis (to be renewed, if possible).

This reminds me of a concern I have. That is, many municipalities are going over to 800 MHz systems (usually trunked) at an alarming rate. For a serious hobbyist (even the beginner), this means the purchase of a scanner with 800 MHz capability or at least a converter (which converts your UHF band into an 800 MHz receiving band). I only know of one company currently who is responsible for manufacturing them, GRE America, Inc.. (For more information about their product you can write to them at: 425 Harbor Blvd., Belmont, CA 94002; or telephone them at (415) 5921-1400, and (800) 233-5973 outside of California.) I cannot speak about their products personally because I sold my old scanners and bought ones equipped with 800 MHz coverage. However, had I not been in a position to do so (financially speaking) my phone would have been acting like a hotline" to this company in order to obtain a converter as a least costly method of gaining 800 MHz coverage.

Which brings me to my fourth topic of this month's column, selling your scanner. You may be wondering, "What do you mean sell my scanner! Is this guy on drugs?" Of course I'm speaking about one

method of upgrading your scanner while trying to recoup as much cost as you can. I have found that if you are trying to get as much as you can from the sale of your average programmable scanner which has, say, 16 channels but does not get 800 MHz (e.g., one that I sold—the Bearcat 100XL, which is no longer manufactured), you may have a better shot of getting what you're looking for by trying to sell it through your local newspaper or shopping guide before going to a trade publication which offers discounts to subscribers. I say this because I found that the market I advertised it in was less sophisticated in this hobby than readers Pop Comm, Monitoring Times, etc. I want to make clear that this is only if you are looking for quick cash. For starters, you don't have to wait for one to two months when your ad would be published. Secondly a prospective buyer may not have a clue as to what the depreciated value of the scanner is. For instance, this may be the first place he or she has seen a scanner advertised in what could be this person's price range. If you have a more sophisticated piece of equipment or you want to trade, the first place to go is RCMA Marketplace. After that, the usual assortment of publications mentioned within the parameters of this newsletter.

Finally, I must admit the mail has been kind of slow lately (with the exception of a steady stream of correspondence from our most excellent New Products Review editor, Curtis Harbin). I would like to encourage readers to write with topics, issues, or problems that concern them or are of interest to them (and could be stretched to fit within the parameters of this column). I will bring these subjects up in the column, answer you direct or both. It's your choice. Thanks for all your support so far and once again, Happy Holidays!




**This column is for HF AM, CW, SSB, RTTY and FAX reception reports, notes, articles, and questions related to HF utilities. Services covered in this column include aeronautical, coastal/marine, weather, government, military and 'spy' stations—essentially everything except broadcasting, CB and amateur radio. Send reports to:**

**Hugh Stegman, 4354 Coolidge Ave, Los Angeles, CA 90066**

Hugo wrapup:

Last year, it was hard to imagine a worse hurricane than Gilbert. Hugo, however, was worse, at least in damage to populated areas. Once again, HF radio was the only means of communication with entire islands for days at a stretch. More than once, I heard radio voices being rebroadcast by the news media.

Just like last year, the best frequency was the National Hurricane Watch Net on 14325 kHz. This one activated on September 15 (UTC) when it became obvious that Hugo was going to blast the Leeward Islands. Except for a few breaks in the wee hours, the frequency was active continuously until the 22nd, when the storm finally broke up over the eastern United States. Paul (NY-332) reports that a friend plotted the entire path of Hugo from co-ordinates given on this net. These hams, who put in killer shifts without sleep, did an incredible job.

14325 is often the first place to hear hams in the affected areas. On the 19th, KP2O was on with emergency power from Charlotte Amalie, St. Thomas, USVI. On the 22nd, a few portable stations bravely took to the air from the Charleston area. However, they went down one by one as the storm hit. Finally a QSY to 80 meters turned up some North Carolina amateurs on 3922.5, and a Georgia net on 3975 LSB. They had reports of roof damage to the Charleston EOC. This had caused flooding in the radio room. Wind was "off the scale" (120+ MPH). It was 0625 (0225 EDT) before Charleston hams were heard on the west coast. Their stories of heavy damage were later confirmed by the news media.

Another good place for info was the United Nations relief net, with 4U1UN in New York. On 14283, I copied VP2M's reports of very severe damage to Montserrat. On 21300, KD2VQ was riding out the storm in Puerto Rico, where he reported heavy rain and flooding.

Many listeners, including NY-332 and Lynn Burke (VA-114), heard

the US Coast Guard operations on St. Croix, where troops were called in to stop looting. The cutter "Bear" was reported working Miami on 7773.5 and 8160, and also with wild, ship-to-ship comms from the scene. Lynn also reports USCGC Bear on 3341, telling an Army colonel that "I have more important things to do than talk to you...".

Louis (NJ-253) sent a good log reporting a St. Thomas station on 14318, 21 September. He also noted St. Croix on 14303 and 28440. However, his most valuable intercepts were the various NOAA and USAF "Hurricane Hunter" frequencies, as I was unable to hear anything on these. He logged "NOAA 33" (a modified P3 Orion airplane also heard during Gilbert) on 6673, and heavy phone patching to MacDill AFB from "Gull 17" on 8993. "Gull" is the callsign of the 53rd Weather Recon Squadron from Kessler AFB. Lynn heard them as well, on 6577 and 11246. Compu$erve users should check the "Hamnet" for a download file called "HURICO.TXT", which lists freqs and codes for these aircraft.

Quite a few listeners reported FEMA activity on 14450, where WGY 917 on St. Croix passed traffic with WGY 912, the station inside Mt. Weather, VA. VA-114 also heard WGY 917 on 10588, working the USCG in Miami. Here, I heard some FEMA activity on 10493 during the massive evacuation of the South Carolina coast on the 21st. At about this same time, 10891 was active with voice and ASCII from the Federal Highway Administration's new Emergency Broadcast System.

Hurricanes Gilbert and Hugo, which happened almost exactly a year apart, have demonstrated the lifesaving potential of HF radio. As a relief op in both storms, I've learned a lot. Here is where I'd like to thank my east coast contributors who made this column possible. I hope that next September can be considerably more routine.

Hugh's Huge Hugo Log:

| | | | |
|---|---|---|---|
| 3341.0 | USB | USCGC Bear/ St. Croix military op | + |
| 3815.0 | LSB | Inter-island emergency net | + |
| 3818.0 | LSB | Antilles net | + |
| 3845.0 | LSB | Unknown Hugo activity | - |
| 3915.0 | LSB | South Carolina Hurricane Emergency Net | e,*,+ |
| 3922.6 | LSB | North Carolina Emergency Net | e,+ |
| 3975.0 | LSB | Georgia SSB Net | e |
| 3995.0 | LSB | Georgia EOC | e |
| 4175.0 | RTTY | USCG St. Croix intership per KA5S | |
| 6577.0 | USB | USAF "Gull" hurricane hunter a/c | + |
| 6673.0 | USB | "NOAA 33" hurricane hunter a/c | - |
| 7055.0 | LSB | SS/ Puerto Rico hurricane net | e |
| 7073.0 | LSB | SS/ Puerto Rico hurricane net | e |
| 7165.0 | LSB | Inter-island net | *,+ |
| 7195.0 | LSB | Health & welfare traffic | - |
| 7232.0 | LSB | South Carolina Emergency Net alternate | + |
| 7244.0 | LSB | South Carolina Emergency Net alternate | + |
| 7268.0 | LSB | National Hurricane Watch Net alternate | + |
| 7773.5 | USB | USCG Miami, USCGC Bear/USN/St. Croix op | *,+ |
| 8160.0 | USB | USCGC Bear, CP "Alpha"/ St. Croix op | + |
| 8918.0 | USB | ATC in hurricane area (ICAO E & W-CAR) | e |
| 8993.0 | USB | "Gull" patches w/MacDill | *,+ |
| 10493.0 | USB | FEMA "936" wkg "908" | e |
| 10588.0 | USB | FEMA "WGY 917" (St. Croix) wkg USCG Miami | + |
| 10891.0 | USB | Federal Highway Administration EBS | e |
| 11246.0 | USB | USAF "Gull" hurricane hunter a/c | + |
| 11396.0 | USB | ATC like 8918 (ICAO E & W-CAR) | e |
| 14160.0 | USB | International Amateur Radio Net (IARN) alt. | + |
| 14165.0 | USB | Alternate to 7195 | - |
| 14225.0 | USB | Puerto Rico inquiries | e |
| 14265.0 | USB | IARN west coast net/N6TAF/h&w traffic | e |
| 14270.0 | USB | Some Red Cross use | + |
| 14274.2 | USB | Somebody reported hearing Air Force One | |
| 14275.0 | USB | IARN primary/K1MAN/Red Cross & h&w | e,-,+ |
| 14280.0 | USB | Puerto Rico info | e |
| 14283.0 | USB | United Nations relief/4U1UN/good info fq | e,*,-,+ |
| 14290.0 | USB | Miami ham wkg St. Croix | + |
| 14295.0 | USB | Montserrat YL ham | + |
| 14303.0 | USB | ARRL International Assistance & Traffic Net | e,*,-,+ |

| | | | |
|---|---|---|---|
| 14310.0 | USB | Health & welfare | + |
| 14313.0 | USB | Maritime Mobile Net | e,+ |
| 14318.0 | USB | St. Thomas damage info | -,+ |
| 14325.0 | USB | National Hurricane Watch Net | e,*,-,+ |
| 14390.5 | USB | USAF MARS/ calling & some hurricane tfc | e |
| 14441.5 | USB | USN MARS | e |
| 14450.0 | USB | FEMA "WGY 917" (St. Croix) wkg "WGY 912" (VA) | *,+ |
| 20936.4 | USB | USN MARS "NRD" patches from PR base to U.S. | e |
| 21220.0 | USB | Hurricane use | * |
| 21280.0 | USB | SS/ Puerto Rico hurricane net | e |
| 21295.0 | USB | ARRL net alternate | - |
| 21300.0 | USB | United Nations alternate/4U1UN | e |
| 21310.0 | USB | Red Cross in Puerto Rico | e,- |
| 21340.0 | USB | SS/ Puerto Rico hurricane use | e |
| 28440.0 | USB | St. Croix routine traffic | - |
| 28450.0 | USB | SS/ Puerto Rico main CD emergency net | e |
| 28475.0 | USB | IARN alternate | + |

e editor - NJ-253
* NY-332 + VA-114

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SUBJECT INDEX FOR 1989 BELOW 30 MHZ COLUMN

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**January:** Discovery shuttle mission/military comm/Shanwick freqs Russian language on VHF/log
**February:** Maritime CW phaseout/weirdness above 10 meters/VHF skip
**March:** Major World Air Route Areas & freqs/VHF skip
**April:** Big log/April fool contest/Morse telegraph club/VHF skip
**May:** Looking for SS/YL freqs/Utility QSL Address Guide/12 MHz ship simplex/military comm & backscatter radar/VHF skip
**June:** Big solar flares/USCG rescue/more backscatter radar/more SS/YL/ air SELCALS/April fool contest/VT-005 log/FCC silliness/VHF skip
**July:** Hurricane season fq list/new Part 15/odd loggings/VHF skip
**August:** FAA emergency net/top 30 fqs/powerline QRN/log
**September:** USCG monitoring/NAVTEX/WWV intro
**October:** SAC inflight emergency/US military fqs/WLO sked/10 meter weirdness/WWV UTC correction/log
**November:** More solar flares/SAC & NASA fqs/RTTY loggings/KMI fqs/ VNG/additional NOAA & USCG fqs
**December:** Hugo wrapup/Hugh's huge log/this index

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1989 COVER PHOTO INDEX

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| January: | New Massachusetts Metro PD MDT's | MA-130 |
| February: | Fire drill in abandoned house | NC-084 |
| March: | Denver Red Cross antennas | CO-049 |
| April: | Radio use at NJ fire | NJ-005 |
| May: | Lake Tahoe control tower | CA-SO-012 |
| June: | LA County FD crew | AZ-030 |
| July: | Kenmore, NY FD engine #3 | NY-332 |
| August: | Plainfield, NJ rescue squad | NJ-005 |
| September: | Pole XFMR explodes in LA fire | AZ-030 |
| October: | Richmond Co. Law Enforcement Ctr. | GA-077 |
| November: | Antennas at Haleakala Science City | CA-SO-012 |
| December: | Mamaroneck FD HQ, Larchmont NY | NY-117 |

**********

# CANADA

**Send Canadian frequency information, radio system details and other information relating to Canadian monitor listening and questions to:**

**Rob Berezowski, 50 Newstead Ave, Regina, Saskatchewan, Canada S4X 1H2**

RCMA CANADA COLUMN 1989 INDEX

FREQUENCIES, CODES & INFORMATION

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| Sask Emergency Measures | Jan 89 |
| Saskatchewan Highways | Jan 89 |
| Sask Parks (Conservation) | Jan 89 |
| Saskatchewan Power Corp | Jan 89 |
| Saskatchewan RCMP | Jan 89 |
| SaskTel | Jan 89 |

## MISC MATERIAL

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|---|---|
| AGT Field Trial Ultraphone 454 MHz radio system | Aug 89 |
| Antenna conversion (QFM-9) (FM band to VHF beam) | Jan 89 |
| Calgary 88 Winter Olympics Broadcast Engineering article | Apr 89 |
| Canada/US Interconnection of Radio Systems | May 89 |
| Canadian Coast Guard Auxiliary Vessel Rescue radio system | Jun 89 |
| Canadian Monitoring Laws | Apr 89 May 89 Jun 89 |
| Dataradio computer modem | Jan 89 |
| Dept of Communications - 30-890 MHz spectrum review | Jan 89 |
| - 42.1 MHz spectrum allocations | May 89 |
| - 454/459 MHz fixed allocations | Aug 89 |
| - 806-821 & 851-866 MHz allocations | Oct 89 |
| - 806-896 MHz proposed band plan | Nov 89 |
| - 929-932 MHz paging allocations | Sep 89 |
| The Dish that Stole Christmas (CFCN TV tower lights) | Mar 89 |
| Mobile Data International (MDI) article | Jan 89 |
| Montreal/Laval Ambulance service information | Aug 89 |
| Supreme Ambulance Care (Carlyle, Sask.) article | Jan 89 |

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| Toronto Police channel marker filter info | Jan 89 |
| Toronto 416 Area Code telephone number growth (from cellular) | Nov 89 |
| VHF baby monitors | Jan 89 |

NEW COMMUNICATIONS SYSTEM INFORMATION

| | |
|---|---|
| Alberta RCMP PACS radio system | Jan 89 |
| Air to Ground Public Correspondance Radio system | Nov 89 |
| Brandon, Manitoba Police radio system | Sep 89 |
| Cellular (800 MHz) Radio Systems | May 89 Nov 89 |
| Digital Cellular Radio Systems | Nov 89 |
| DND 900 MHz shipborne radar systems | Feb 89 |
| Edmonton Police Mobile Data Terminals | Aug 89 |
| New Brunswick Province-Wide Inter-Agency Communications Network | Apr 89 |
| 900 MHz Wireless Broadcast Microphones | Feb 89 |
| Trunked Radio System overview | Feb 89 Aug 89 |
| Vancouver Fire Dept Mobile Data Terminals | Jan 89 |

RCMA CANADA COLUMN 1989 INDEX

JANUARY 1989

Vancouver area info; info on Mobile Data International (MDI); Saskatchewan info; FM beam antenna conversion; Metro Toronto marker filter info; VHF baby monitors (49 MHz) article; Alberta RCMP PACS info; info on DOC spectrum review.

FEBRUARY 1989

Edmonton area and Alberta info; trunked radio system overview; info on 900 MHz wireless microphones.

MARCH 1989

The Dish that Stole Christmas; new OPP radio system start-up in London; Edmonton and Alberta info, with info on Alta RCMP PACS system.

APRIL 1989

Alberta RCMP 10 Codes; Vancouver and Vancouver Island info; article on 1988 Winter Olympics TV broadcast; New Brunswick info, with info on new province-wide radio system; info on Canadian monitoring laws.

MAY 1989

Info on legislation to allow legal monitoring; 421 MHz band info; Windsor area info; discussion re: common Canada/US radio systems; BC Emergency Health Services unit and station info.

JUNE 1989

Canadian monitoring law discussion; Vancouver area info; BC Emergency Health Services unit info; discussion of Oak Bay Coast Guard Auxiliary Vessel radio station.

JULY 1989

Quebec frequency list; Toronto region frequency list.

AUGUST 1989

Montreal frequency list and info; Saskatchewan/Manitoba freq list; Edmonton and Alberta region freq list and info.

SEPTEMBER 1989

Dept of Communications 929-932 MHz paging allocations (SRSP 504); Brandon Police radio system info; Edmonton info.

OCTOBER 1989

Dept of Communications 806-821 & 851-866 MHz band allocations (SRSP 502).

NOVEMBER 1989

Dept of Communications 806-896 MHz proposed Band Allocation Plan, including info on new expanded cellular systems, and new air-ground radio telephone; Digital cellular radio discussion; info on heavy use of 416 area code (Toronto) telephone numbers by cellular systems.

DECEMBER 1989

1989 Canada Column Annual Index.

# COASTAL and INLAND WATERWAYS

**This column is for VHF-FM band and related HF frequencies, information, articles, and questions that relate to coastal and inland waterways radio communication. This includes private, commercial, and Coast Guard to civilian vessel communications. It also includes private business and government frequencies that depend on or are related to the activities of surface craft, though these frequencies may also go in the Commercial Communications, Below 30 MHz, and Federal Government and Military columns as appropriate. Harbor Patrol and firefighting frequencies are welcome here and in the Public Safety columns. Coast Guard freqs other than those used to communicate with civilian vessels must go in the Federal Government and Military column.**

**Emmett L. Baxter, Jr., 4122 Granby St., Norfolk, VA 23504**

Hello and welcome to your Coastal and Inland Waterways Column for December 1989.

As the year comes to an end I would like to wish everyone a very Merry Christmas and a Happy New Year and lets look forward to a very good year with lots of information being shared.

As usual the yearly column contents index for 1989 follows.


February: Oregon-Washington (13th. C.G. District) information.
" " Marine Information Broadcast Schedule.
San Francisco Vessel Traffic System.

March: San Francisco monitoring log.
New Orleans area Coast Guard information.
Oregon Inlet,N.C. Coast Guard Station information.
Benton Harbor,Mi. C.G. Station Boat.
Ambrose Light Tower,N.J.
Navy Harbor Pilots
5th. C.G. District Frequency information

April: Column change information
Navy Harbor Pilots follow-up
Northwestern Wisconsin Monitoring Log
Request for Great Lakes Frequencies
Marine VHF frequencies information

May: Western Canadian Coast Guard information
Oak Bay Sea Rescue
Canadian Coast Guard Day
Canadian Coast Guard Rescue Monitored
Victoria Canadian Coast Guard Base
Victoria Coast Guard District Light Stations
Marine Rescue Auxiliary West
C.C.G. Western District ATON Vessels
C.C.G. Frequencies used in maritime services

June: Benton Harbor/St.Joseph,Mi. CG Station Boat
Ambrose Light Tower info
Navy Harbor Pilots
Cape Cod/Boston,Ma. marine frequencies
Frequency request for Great Lakes,Philadelphia & S.Jersey areas
Provincetown,Ma. Cruise Ship info & frequency profile
West Coasts marine museums
Savannah,Ga./Jacksonville,Fa. Marine info
St.Simons CG data

July: 11th. C.G.District marine info
VHF Drawbridges in California
California marine frequencies

August: New Waterway Communications on new frequencies for inland waterways like the Mississippi River
Cities and frequencies

September: California offshore oil drilling towers - frequencies and locations
Frequency used for docking ships
Call Sign list and info
Oakland marine profile

October: Oil industry ships and call signs
Wisconsin area frequencies
Maritime Museums on the West Coast
Mass. Scanner Guide
Scanner Lapel Speakers

November: Arrival of Exxon Valdez in San Deigo,Ca.
San Deigo/Long Beach frequency info
Boston,Ma. area marine info
State of Washington marine info
Navy Mars frequencies

Well I'll be back next month with more marine information. Send in yours so you can see it in print.

# contact info wanted

**This column has two purposes: to help members contact each other, and to help members obtain directly from one another information on various subjects related to two-way communications monitoring. If you would like to meet, converse, or correspond with other members by telephone, letter, or cassette, this column is the place to state your interest. Remember—those who respond will do so directly, so be sure to provide your phone number, the best time to be called, and/or your address. Write to:**

**Scott Mattson, 2820 Bridge Ave, Point Pleasant, NJ 08742**

**Requests for copyrighted material or information considered 'sensitive' by RCMA will not be printed in this column.**

**WANTED:** Information on frequencies and codes for the following New York state counties: Tioga, Steuben, Chemung, Schuyler, and Tompkins. Will trade info for same.
JIM OTIS (NY-152) J & J Trailer Park F-8, Fulton, NY 13069

**INFO WANTED:** Can anyone send me the 10 codes for the NYPD plus the NYC precincts and what areas they cover?
MURRAY FRANKEL (NY-374) P.O. Box 1149, Bronx, NY 10462

**CONTACT WANTED:** I am looking to correspond with anyone in or around the San Joaquin area to exchange frequencies and other information.
SHELDON PERRY (CA/SJ-Ø19) P.O. Box 4871, Stockton, CA 95204-Ø871

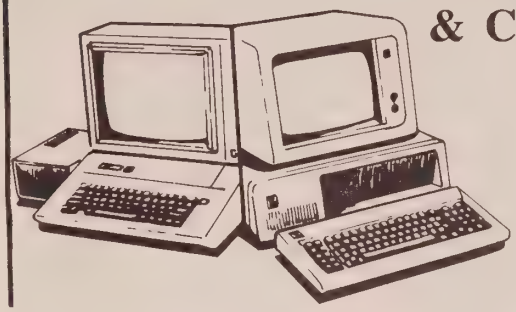
**INFO WANTED:** Info needed on the following: Michigan State Police codes and signals; UCR (Uniform Crime Reporting) charge codes; city, village, township venue numbers for Allegan, Cass, Kalamazoo, and Van Buren counties; ability to acquire old FCC microfiche. Am interested in years prior to 1983.
JIM SOKOL (CA/SF-Ø3Ø) P.O. Box 295, Saint Joseph, MI 49085-Ø295

## Want to Get Your Newsletter 1st Class?

**Getting your RCMA Newsletter mailed 1st class may be your answer if you have consistently slow or erratic service with 3rd class mailing. 1st class costs a lot more—that's why we use 3rd to begin with—but if you can spend the greater amount, here's how:**

**Check your mailing label for the number of months left on your current membership. (If it says 10/89, for example and you are reading this in June, then there are 3 months remaining.) Multiply the number of months by the amount of 88 cents. Make out a check or M.O. for that amount to RCMA, Inc. Send to: RCMA General Manager, P. O. Box 542, Silverado, CA 92676. Mail it with enough time to allow its delivery before the end of the month.**

# DIGITAL COMMUNICATIONS & COMPUTER CORNER



**Editor: Steve Ryckman**
**P. O. Box 136**
**Wadsworth, IL 60083**

**BBS # 312/872-8086**

**The thin line between computers and radios.....**

Before I get started on the main topic for this months column, let me apologize to everyone for missing a month just after getting started, but due to a family member being hospitalized, there just weren't enough hours in the day to get it done. I would also like to thank everyone who has written in with their suggestions and support. Now onto the reason you are reading this column.....

With 1990 right around the corner, it seems that almost every new piece of communications equipment incorporates some type of computer curcuitry in it. From the simplest digital display to computerized programming interfaces for the newest scanners, the computers are there. Following is a list of differant devices you may never have expected to be using radio frequencies and radio equipment that you may never have expected to be using computers:

EEPROM Programmable scanners have been around for some time now, but the last couple years have brought programmability into tranceivers also. From Regency's famous mobile radios to their newest REALM Handheld portables, for anyone with the know-how, changing a frequency is easier than using your ATM card. Besides for the ease of use, the computer has allowed radios to become smaller, easier to service, and given them a wider band to work with. With electronic frequency control, they can self-adjust themselves to peak out on whichever frequency they are requested to transmit on instead of having a set peaking. With Motorola and Johnson developing state of the art radios that not only list the channel number on their display, but actual preprogrammed words for the user to referance frequencies, and with channel capacity up over 200 as of this writing, look out for big changes in the future.

PAGERS used to be simple little devices that consisted of a receiver with a crystal and a tone reed. When your tone was paged, your pager beeped and you had to call someone to find out why you were paged. Now, not only do we have numeric display pagers but pagers that actually display several rows of english text ! With the new nationwide services as well, you can no longer tell your boss "you must have been out of range" when you were out to dinner and didn't want to call him back. For those of us who's careers require constant availability, it seems we have cursed ourselves with technology.

Alexander Bell never dreamed of what would happen to his phone back when he invented it. The crank and even newer rotary phones are now antiques. Chances are that any kids under 16 wouldn't know how to dial a rotary phone if they had to. It seems like they have been around forever also but the cordless phone is still relatively new technology. With the advent of clear-call curcuitry, security codes and multiple frequency systems, alot of times you can't even tell someone is using a cordless phone. Then they came out with the cellular phone and now you can call in sick from the beach. Without computer curcuitry, cellular telephones wouldn't have made it at all. They depend heavily on the work of computers to switch you from one cell to another as you drive around. They also are used to connect your call through the carrier

service you subscribe to, and to check your phone's access and security codes to make sure it hasn't been locked out. With cellular phones reduced to the size of a standard cordless phone also, they contain more computer curcuitry than my first real computer. Not only do you have pre-programmed numbers and redial, but scratch-pad, speakerphone, horn interface and answering machines for your car.

Mobile Data Terminals for police deparments may very well be the biggest development for law enforcement in the last ten years, giving officers instant access to the country's criminal records. With the ability for them to run a license plate on a suspicious vehicle without dispatcher intervention, they can weed out the criminal from the average citizen easily. At the department I used to work at, the officers would go through the local hotel parking lots at night and run every plate. Nine out of ten times I would bet they found a wanted suspect..... and if a dispatcher had to run all those plates I guarantee that if it was me, I'd tell the officer where to go. (Dispatchers are the only people who get away with telling an officer where to go.)

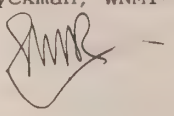
Vehicle Alarm Systems have boomed in the last ten years also when car thefts increased and insurance rates skyrocketed. The public realized that it only takes a couple minutes to rip a stereo out of a car and the thief will be long gone before the police get there, and someone came up with the pager for your alarm system. Now, not only does your alarm go off when they break your window, but your alarm pages you if you are within distance so you can watch them run off with your stereo. Usually operating in the CB band, and connecting to your FM antenae, these things have become as common as those little yellow signs in the back window of half the cars in America.

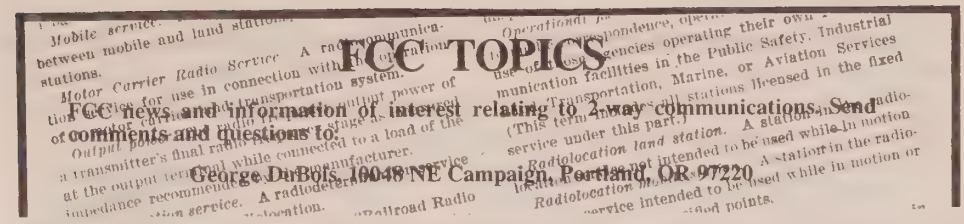
Speaking of alarm systems, on the home and commercial front, we have the "do it yourself" alarm systems which require no wiring. Basically the idea was a good one, but lacked some forsight. What happens if someone in an adjoing house has the same system as yours ? Well, since the first systems, they have developed a "coding" sequence similar to garage door openers, but there are still alot of older systems that go off everytime a kid with a CB Linear amplifier drives by. Most all the systems have gone up to the 300 Mhz band designated for security systems but listen for some still down in the 20-30 Mhz and 148-152 Mhz ranges.

I am sure I probably missed alot of devices like the wireless intercom, the baby monitor, and at least a dozen others but I think you get the idea that you can't avoid computers these days. One of the first letters I recevied as editor of this column, and followed by many since then, was a request that this column become more diversed. Instead of talking entirely about radio systems or entirely about computers I want to make you all aware of how they work together. To those of my readers who use computers, I can be reached on John's BBS system at (312) 872-8086. I just recently took the plunge and upgraded to a Wyse 386 computer system for my business with all the toys and will be working hard on getting some newer versions of our previously released ShareWare programs out the phone-lines.

Stay tuned for next month when I have a very descriptive column on the voice scrambling curcuits currently in use and being developed. I have spent many hours researching for this column on the phone with the companies that are producing the devices, as well as working with them hands-on and on the air-waves testing them personally.

Catch ya' later..... Steve Ryckman, WNMT-513 Clear





# FCC TOPICS

**FCC news and information of interest relating to 2-way communications. Send comments and questions to:**

**George DuBois, 10048 NE Campaign, Portland, OR 97220**

The FCC has amended its rules to allow increased power for paging and mobile telephone stations in the VHF and UHF bands. The limits had previously been 500 watts ERP in all bands except at 932 MHz, where 1000 watts was permitted. Decreased power is required for increased antenna height above 500 feet. In low band the limit was increased to 600 watts ERP at 35 MHz. In high band, the limit was increased to 1400 watts. And at UHF, 3500 watts ERP will be allowed.

These new limits were determined to be the maximum increases that could be allowed with minimal increases in the mileage separation required to prevent adjacent channel interference. In high band, for example, the minimum separation with 500 watts output is one mile (assuming 75 db receiver selectivity and a received signal level of 1 uv.) while at 1400 watts the minimum separation required is only 1.7 miles. On paper, at least. The increased limits are only allowed if no interference is caused to common carriers on the same channel in adjacent areas, unless the increased service area extends into an area licensed to the same carrier. (This will allow the licensees of large, regional systems to serve their area with fewer transmitters.)

An exception to the new, higher power limits is being made on those frequencies adjacent to land mobile channels. These are 152.24, 152.84, 158.1, 158.7 and 454.025 MHz. On these channels, the old limit of 500 watts will be retained, to prevent interference. The same with the channels in T-band. And no increase is being allowed for paging transmitters at 43 MHz, due to the high probability of interference to TV reception. At 931 MHz no increase in power is being allowed but the antenna height restriction is being removed on the three nationwide paging channels (931.8875, 931.9125 and 931.9375), since the same licensee operates on each channel nationwide and there is no possibility of interference to other licensees.

The Commission has taken action to allow eight high-band VHF frequencies available in the Taxicab Radio Service to be used in the Business Radio Service. These channels are 15 kHz-spaced channels between existing Taxicab Radio Service channels at 152 and 157 MHz. Four frequency pairs, 152.27, 152.33, 152.39 and 152.45 MHz (paired with channels at 157.53 through 157.71), are allocated nationwide for taxi use exclusively. Three additional channel pairs (152.30/157.56, 152.36/157.62 and 152.42/157.68) are available for taxi companies in urban areas of 50,000 or more, and are available in the Business Radio Service outside these cities. (You'll notice that these channels are all spaced 30 kHz apart.) When the FCC allowed the use of 15 kHz-spaced channels in most services in 1971, they allocated the frequencies between the above seven channels to the Taxicab Radio Service in urban areas, but did not allow their shared use in the Business Radio Service, since there was no frequency coordinator to recommend frequency assignments in the Business Radio Service at the time. (8 to 10 mile separation is required between base stations on adjacent channels.) So all channel spacing in VHF high-band in the Business Radio Service stayed at 30 kHz. (The channels at 151 MHz, too.) The 15 kHz-spaced channels between the Taxicab Radio Service channels remained unused outside urban areas. Now, in a move that will allow greater use of these channels, the FCC is allocating eight of the 12 frequencies to the Business Radio Service. There is now a frequency coordinator in this service. The other four 15

kHz-spaced channels will remain available in the Taxicab Radio Service, but may be used outside urban areas.

| Business Radio Service | Taxicab Radio Service |
|---|---|
| 152.285, 152.375, 152.405, 152.435 | 152.315/157.575 |
| 157.545, 157.635, 157.665, 157.695 | 152.345/157.605 |

As is the custom in the Taxicab Radio Service, the 152/157 MHz frequencies will continue to be paired, with the 152 MHz channels available for base or mobile use and the 157 MHz channels available for mobile use only. Also, the Commission will continue to use the 1950 census for making assignments on the shared channels. They decided that it wouldn't make sense to have to be constantly updating the list of eligible urban areas (over 50,000), so will retain the current method.

In this same proceeding, the Commission had proposed allocating the frequencies spaced 15 kHz apart in the Business Radio Service at 151 MHz also (151.625 through 151.955 MHz). But upon consideration they declined to. The existing 151 MHz channels are so heavily used nationwide that there would be very few areas that would be able to use the 15 kHz offsets. Also, interference would be created to users of ACSB and other narrow-bandwidth techniques that operate on channels 2.5, 7.5 and 12.5 kHz offset from the regular channels in VHF high band.

Finally, the Commission had proposed allowing increased power on the channels reserved for paging use in the Business Radio Service. Only one frequency, 152.48 MHz, is allowed full power (350 watts). The others (154.625, 157.74, 158.46) all have power limits of 75 watts or less. They had considered allowing paging use, with full power, on the new 15 kHz-spaced Taxicab channels, or 15 kHz-spaced channels at 151 MHz, but concluded that the potential for interference to adjacent-channel users was too great. Likewise with the use of increased power on the existing, three channels, which are adjacent to frequencies allocated to other services. Therefore, they declined to take any action, especially since channels are available exclusively for paging use at 462 and 929 MHz.

The FCC has added two footnotes to the Table of Allocations, noting that two U.S. Government bands are limited primarily to the military services. (That's one footnote for each band.) The National Telecommunications and Information Administration amended the National Table of Frequency Allocations by adding the footnotes, to better reflect the intent and practice of limiting use of the 138 - 144 and 148 - 150.8 VHF and 225 - 400 MHz UHF bands to the military services. (This excludes the 328.6 - 335.4 MHz navigation band and the 149.9 - 150.05 MHz navigation-satellite band.) Therefore, the FCC has added the same footnotes to the Table of Allocations in Part 2, even though, of course, non-government users are unaffected by NTIA's action.

The FCC has issued a couple of minor amendments regarding the cellular Rural Service Area "fill-in" policy. Briefly, this allows any applicant to apply for those portions of Rural Service Areas that the existing licensee elects not to serve after five years of the grant of the first license in the area (wireline or common carrier). A similar provision exists for unserved portions of the Metropolitan Service Areas. The Commission agreed to amend the policy to allow five-year exclusivity from the grant of <u>each</u> license in an area, not the first one to be granted. This was unfair to the second licensee in the area (usually a common carrier), since in many cases there can be a year or two between the time a wireline (telephone company) carrier starts service and the time the second licensee goes on the air. This would have given the non-wireline carrier

considerably less time to build and develop his system before his unserved area was opened to other applicants.

Also, the Commision agreed that after the five-year period, the wireline / non-wireline separation will be eliminated for Rural Service Area fill-ins. This means that non-wireline common carriers will be allowed to apply for areas not served by the wireline carrier. Likewise, telco's will be permitted to apply for unserved areas on common carrier frequencies. It has always been the Commissions policy that it would eliminate the separation after the initial application periods for all markets, both Metropolitan and Rural Service Areas. In fact, they have already opened up the wireline frequency block for any applicant in two Maryland cities where no telephone company had applied for them. They will do likewise with any unapplied-for blocks in the Rural Service Areas and, after the five-year exclusive period, will do the same with unserved portions of assigned Rural Service Areas.

A Report and Order was issued that will deny type-acceptance for any frequency-synthesized marine transmitter that has user-accessible frequency programming controls. Many such marine transceivers are easily programmable to operate outside the 156 - 157 MHz Marine Band, causing interference to other, authorized services. Numerous such cases have been reported in the Gulf of Mexico. This amendment requires that synthesized radios be programmable only with equipment or by methods not normally available to the user. This, of course, does not prohibit external, keypad selection of channels, only the internal selection of any frequency other than those within the Marine Band. Similar rules were adopted a number of years ago regarding synthesized radios used in the land mobile bands. Marine radios may be programmable to operate on the International Marine channels not used in this country (starting at 156.025 and 160.625 MHz), but only in the two-frequency simplex mode, so that two-way intercommunication would not be possible. A two-year phase-in period will allow sale of existing equipment not meeting the new rules.

# FEDERAL GOVERNMENT and MILITARY

**Send non-aircraft-related frequency information for Army, Navy, Marine, Air Force, Coast Guard, and non-military Federal Government radio systems, and related questions to:**

**Dennis Biagioli, 1352 Shagbark Court, Carol Stream, IL 60188**

**Military aircraft frequencies and aircraft support-related frequencies should go to the Aircraft column unless they improve the overall submission to this column. HF SSB frequencies may be sent to this column if they benefit the submission; otherwise, they should go to the Below 30 MHz column. To improve continuity of fire communications, you may send USFS, OES, and BLM firefighting frequencies to Public Safety. Sensitive frequencies will not be published.**

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Mather A. F. B., CA
Mc Clellan A.F.B., CA

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Postal Service, Dallas, TX
183 TFG (Air Guard), Springfield, IL
(Police Call) Area 2 & 3 data

Mar: (Police Call) Area 4 data

Apr: Ellsworth Air Force Base, SD
Grissom Air Force Base, IN
(Police Call) Area 5 & 6 data

May: New White House (HMX-1) Helicopters
Defense Mapping Agency Aero. Publications
Glenview N.A.S., IL -- Openhouse
Buckley Air Nat'l Guard Base, Colorado
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National Gallery of Art
National Zoological Park
Dist. of Columbia freq. printout

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Park Police, DC
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Little Creek Navy Amphib. Base, VA
Ft. Story (Virginia Beach), VA
Dam Neck, VA
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Ft. Custer (U.S. Army)
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Well, that's the year that was. Our deepest thanks to those members and friends who made this column possible. And my strongest encouragement to those who would like to contribute, but are not quite sure their data is important. Every frequency is important to somebody! No contribution is too small. The regional printouts have been expanded a lot by members who sent in only one or two entries. Yet so many of you could add so much. Look at how many of our forests and parks have had no coverage. Likewise, many military bases, national laboratories, ammunition plants, recreational areas, etc., have had no data submitted at all. If you want a more complete picture of what's happening, become an active member!

Best wishes to all for a very happy Holiday Season -- and may 1990 be a truly happy year for all.

73-
Denny

# LOW BAND SKIP

**Send reception reports relating to distant stations received in the 30-50 MHz band plus any Low Band DXing tips, comments, etc. to:**

**Paul Bastian (PA-267), 800 Kimberton Road, #H-4, Phoenixville, PA 19460**

First I would like to thank all those who wrote to correct me about the busy tone used by the Los Angeles County Sheriff.

Secondly I would like to update some information that we listed in the Aug Issue. BRENT BARBER, IN-105 sent us a letter to update the information in the Group C frequencies in that issue. The following frequencies 42.34, 42.46 and 42.52 MHz are used by the Illinois State Police. However some of those frequencies listed are indeed used by the Indiana State Police. Such as 42.12 MHz is a car to car channel, while 42.40 MHz is used as an alternate car to car channel. The frequency 42.42 MHz is used as a Base to Car channel. A note on how the Indiana State Police identify themselves, 13-3-25 is an example of such ID. The 13 is the District Number, while the 3 is the Zone Number, and 25 is the Unit Number. Thanks Brent for your update.

From RUSSELL WRIGHT, TX-241, he sent a list for the Harris County Constables which are quite active and operate around the Houston area. For those who pick up skip from Texas keep this in mind.

| FREQ | CALL SIGN | UNITS |
|---|---|---|
| 37.06 | WNHU899 | Spring / Kingwood |
| 37.08 | KOB645 | S.E. Houston |
| 37.10 | WNHH661 | Pasadena |
| 37.18 | KFD661 | Baytown |
| 37.24 | KLX911 | Pasadena |
| 37.96 | ? | East Houston |

Russell also reports receiving paging from South American on the following: 32.68, 32.82 and 32.96 MHz. Thanks Russell for the letter.

To finish this month we will continue with RUSS HILL, MI-002 extensive logging's:

| DATE | TIME | FREQ | CALL | USER |
|---|---|---|---|---|
| 5-20 | 22:52 | 39.16 | | SD Highway Patrol |
| | " | 39.24 | | SD Highway Patrol |
| | " | 39.28 | | SD Highway Patrol |
| | " | 39.32 | | SD Highway Patrol |
| 5-30 | 12:40 | 39.90 | KVP484 | Holt Co, NE |
| | 12:43 | 39.32 | KAB527 | Lake Co., SD |
| | 12:56 | 39.10 | | "4661 to 164" ?? |
| | 13:11 | 42.46 | | NE State Police |
| | 13:15 | 39.90 | KDY287 | Hooker Co, NE |
| | 15:38 | 37.26 | | ?? TN "Go Ahead Lawrenceburg" |
| | 15:46 | 42.12 | | ?? "10-50 on I-110" |
| | 21:46 | 42.42 | | TN Highway Patrol |
| | " | 42.06 | KAA203 | MO State Police |
| | " | " | | SC Hwy Pat. "Charleston Hts" |
| | 21:49 | 39.90 | KAI943 | Nance Co, NE |
| | 21:53 | 37.10 | KKH300 | Benton, Co, AR |
| | 21:58 | 45.22 | KKT558 | OK Highway Patrol |
| | 22:04 | 39.58 | KAI496 | Wamego, KS; Police |
| | 22:07 | 42.82 | | NC Highway Patrol |
| | 22:08 | 39.58 | WQR271 | Montgomery Co. KS |
| | 23:30 | 39.90 | KNBN592 | Thayer Co, NE |
| | 23:36 | 39.62 | | Concordia, KS |
| | | | | (advising of approaching storm) |
| | 23:40 | 39.90 | | Scotts Bluff, NE |
| | | 39.16 | | SD Highway Patrol |
| | | 39.24 | | SD Highway Patrol |
| | | 39.28 | | SD Highway Patrol |
| | | 39.32 | | SD Highway Patrol |
| 5-31 | 13:10 | 39.16 | | State Of FL |
| | 21:50 | 37.26 | | ??? OK agency |
| | 22:00 | 44.70 | | OK Highway Patrol |
| | 22:05 | 39.58 | | Concordia, KS |
| | 22:07 | 33.90 | KJY884 | Chester Co, PA |
| | 22:51 | 39.96 | | Baltimore Co, MD |
| | 22:53 | 33.82 | | East US Fire "Advise 4115" |
| | 22:54 | 39.82 | KGA905 | Delaware Co, PA - Police |
| | 22:57 | 37.18 | KEB431 | Ocean Co, NJ |
| | 22:59 | 35.70 | | Spanish Speaking |
| | 23:00 | 39.32 | KGD671 | MD State Police |
| | 23:02 | 39.56 | | Baltimore Co, MD |
| | 23:05 | 33.70 | KUE698 | Montgomery Co, PA Fire |
| | 23:08 | 33.90 | KJY884 | Chester Co, PA Fire |
| | 23:12 | 31.24 | | Spanish & English |
| | | | | (w/ Spanish accents) |
| | 23:18 | 33.52 | | E. US Fire "IMC Chemical Plant" |
| | 23:45 | 30.76 | | Taxis ?? |
| 6-3 | 23:40 | 42.46 | | NE State Police |
| | 23:41 | 39.32 | | SD Highway Patrol |
| | 23:42 | 39.90 | KVP484 | Holt Co, NE |
| | 23:53 | 39.90 | KAG623 | Sedgwick Co, CO |
| 6-7 | 22:03 | 33.38 | | "10-4 Main Gate Clear" |
| 6-18 | 11:40 | 45.42 | KZR490 | FL Highway Patrol |
| | 11:58 | 39.50 | | St Johns Co, FL |
| | 12:12 | 37.14 | | "Did you copy that 605, |
| | | | | 600 clear" (southern) |
| | 12:22 | 33.90 | | "Bravo 2-6 this Bravo 4-niner" |
| | | | | (Southern) |
| | 12:28 | 42.06 | | SC Highway Patrol |

| | | | | |
|---|---|---|---|---|
| | 12:31 | 39.50 | | VA State Police intersystem |
| | 12:43 | 39.58 | | ?? Scrambled transmission |
| | 12:48 | 45.22 | | "on Church St, 2 people down" (Southern) |
| | 13:00 | 33.88 | | Cy Fair VFD, Houston TX weekly radio test |
| | 13:10 | 33.90 | | "Eng 10 resp. from ?? & Madison Rescue 11 resp" |
| | 13:12 | 33.30 | | Oil rig placing order for chemical |
| | 13:41 | 33.30 | | Oil rig next door to Pennzoil Rig |
| | 13:47 | 33.38 | | Oil rig Derrick 1 |
| | 13:59 | 31.14 | | State of GA ?? |
| | 14:04 | 39.58 | | Scrambled |
| | 14:15 | 33.52 | | Community Protection Services (Houston TX) |
| | 14:34 | 33.94 | | FD ?? Coast Blvd mentioned FL ?? |
| | 15:00 | 39.80 | | ?? LA Agency |
| 6-20 | 22:37 | 39.32 | | SD HP "Storm Warning" |
| | 22:41 | 39.16 | | SD Highway Patrol |
| | 22:46 | 39.28 | | SD Highway Patrol |
| 6-23 | 16:32 | 33.38 | KQF207 | Oil rig ?? |
| | 18:00 | 39.96 | | Phone Patch (Southern) |
| | 22:28 | 39.98 | | S. Euclid OH Police |
| | 22:40 | 39.90 | KNBN592 | Thayer Co, NE |

With this column we bring an end of another year. I would like to personally thank all of those who wrote me in 1989 and hope that the input continues as we go into a new decade. To everyone I wish you a

MERRY CHRISTMAS AND A HAPPY NEW.

# MARKETPLACE

**Members may advertise, free of charge, items wanted, items for sale, and items for trade that are associated with the hobby of monitor/utility/radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transaction between members resulting from ads printed in this column.**

**Please Note: Ads must be submitted on Marketplace ad forms ONLY. You can obtain these by sending your request AND an SASE to RCMA, P.O. Box 542, Silverado, CA 92676. Ads received at this address by the first of the month will appear in the issue printed during the same month. You must include your membership number.**

**FOR SALE:** Uniden BC 200XLT. Full cellular coverage includes MetroWest #A-151 coiled 12 volt adapter. Mint condition. $235.00. UPS prepaid shipping.
Contact: Albert E. Nichols (RI-007), 1001 Sylmar Ave, Sp. #210, Clovis, CA 93612, (209)299-9261 (9/05)

---

**FOR SALE:** APELCO VHF-FM Radio Telephone. Bought in 6/89, used very little. $250.00
Contact: Steve Giovannis (GA-103), 4314 14th St East Beach, Saint Simons Island, GA 31522, (912)638-1915 (9/18)

---

**WANTED:** Schematic and Owner's Operation Manual for Regency M100.
Contact: Robert Langdon, 6 Sussex Place, Deer Park, NY 11792 (9/19)

---

**FOR TRADE:** Realistic Pro-2020 for handheld scanner of similar coverage.
Contact: R. L. Armond, Jr., 259 Hyacinth Way, Oceanside, CA 92056-1778. (619)967-7230 (9/20)

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# MONITORING & THE LAW

**Jorge Rodriguez, 1129 Castile, Coral Gables, FL 33134**

## Scanner Ban Angers Some

Few states completely ban the use of scanners in motor vehicles. Those states that do are angering some drivers. Not so much for the unreasonable ban, although that is the focus of the issue, but for their failure to warn out-of-state drivers of the ban.

Many drivers, especially those who have had scanners confiscated want to see signs posted as you enter these states indicating that scanners are against the law. Ideally, most say, the laws should be repealed, but in the meantime drivers should be warned and given an opportunity to obey the law.

Kentucky for example has been known to stop vehicles based merely on the fact that they display an external auxiliary antenna. The law in that state completely bans scanners in private vehicles. The reasoning behind the law is that motorists who use scanners use them to violate the law.

Even licensed amatuer radio operators are included in the law. Such radio hobbyists could be in violation of the Kentucky law whenever they use any one of several 2-meter radios. Those newer radios receive most of the VHF public service band. A amatuer radio operator could be in violation of the law when he merely possesses such a radio in a vehicle in Kentucky.

The law on scanners in Kentucky is contained in section 432.570 of the Kentucky statutes and states:

Possession or use of radio capable of sending or receiving police massages restricted - Penalty - Enforcment.

(1) It shall be unlawful for any person except a member of a police department or police force or an official with written authorization from the head of a department which regularly maintains a police radio system authorized or licensed by the Federal Communications Commission, to have in his possession, or in an automobile or other vehicle, any mobile radio set or apparatus capable of either receiving or transmitting radio or other massages or signals within the wave length or channel now or which may hereafter be allocated by the Federal Communications Commission, or its successor, for the purpose of police radios, or which may in any way intercept or interfere with the transmission of radio messages by any police or other peace officers and it shall be unlawful for any car, automobile or other vehicle other than one publicly owned and entitled to an official license place issued by the state issuing a license for said car, to have, or be equipped with such sets or apparatus even though said car is owned by an official. Provided, however, the provisions of this section shall not apply to any automobile or other vehicle owner or operated by a member of a sheriff's department authorized by the fiscal court to operate a radio communications system that is licensed by the Federal Communications Commission or other federal agency having the authority to license same. (2) Any person guilty of violating any of the provisions of this section shall be guilty of a misdemeanor, and upon conviction shall be punished by a fine of not less than fifty dollars and not exceeding five hundred dollars, or imprisonment not exceeding twelve months, or both so fined and imprisoned. (3) It shall be the duty of any and all peace officers to seize and hold for evidence any and all equipment had or used in violation of the provisions of this section, and upon conviction of the person having equipment or using such equipment or apparatus destroyed, forfeited or escheated to the Commonwealth of Kentucky, and sid property may be ordered destroyed, forfeited or escheated as above provided without a conviction of the person charged with violating this section. (4) Nothing in this section shall prohibit the possession of a radio by: (a) An individual who is a retailer or wholesaler and in the ordinary course of his business offers such radios for sale or resale; (b) A commercial or educational radio or television station, licensed by the Federal Communications Commission, at its place of business; or (c) An individual who possesses such radio, provided it is capable of receiving radio transmissions only and is not capable of sending or transmitting radio messages, at his place of residence; licensed commercial auto towing trucks; newspapers reporters and photographers, disaster and emergency services personnel authorized in writing by the state director of disaster and emergency service (for state personnel)or chief executive for the city or county (for their respective personnel); peace officers authorized in writing by the head of their law enforcement agency, Commonwealth's attorneys and their assistants, county attorneys and their assistants, except that it shall be unlawful to use such radio to facilitate any criminal activity or to avoid apprehension by law enforcement officers. Violation of this section shall, in addition to any other penalty prescribed by law, result in a forfeiture to the local law enforcement agency of such radio. (5) The secretary of finance is hereby empowered by issuance of a secretary's order to exempt from the prohibitions and penalties of this section the possession and use of any and all radio communication equipment that he finds is necessary to be owned and used by members of the general public and other non-police persons for utilization in the N.O.A.A. weather radio system.

## RCMA has a Telephone Number

The RCMA telephone number is (714)545-9551. It's `manned' by an answering machine, and while it's been established for RCMA members, its use is limited. You may leave a message concerning delivery or renewal problems; you cannot use it to request club information or order back issues. Appropriate response will be made by letter or postcard, not by telephone. Any call regarding a membership problem MUST be accompanied by your membership number.

Please remember that it is a toll call, so be sure before you dial that a written communication won't do just as well. Do not call regarding a missing newsletter before the 20th of the month of the issue in question. **Your message will be relayed to the appropriate person, but your call will not be returned.**

# NEW PRODUCTS REVIEW

**This column is for news of new products and product reviews of interest to scanner and short wave utility listeners. Send news, reviews, and comments about receivers, antennas, frequency publications and other products related to the hobby to:**

**Curtis Harbin, P. O. Box 5576-E.K.S., Johnson City, TN 37603**

Hello everyone and welcome aboard the New Products Review train for November. Hope everyone has a super nice Thanksgiving and lets remember and give thanks to God for the things that we have and are blessed with.

I start out this month with some comments from Roy Snoe-Tn-050. Roy wrote in with these suggestions and ideas. Thank you very much Roy and here they are. Roy would like to know which pre-amps are the best, which kind of hand helds are best for mobile use, and does anyone make an external miniature keypad light ? Roy also asks if anyone makes a S-meter to add on to scanners. Well Roy, everyone has there picks of portables. Probably the best way to decide is to check out the different portables at shops if you can and see which is too your liking. Most people I have talked too, like the BC-200XLT and the PRO-34 units about the best.

As for pre-amps, there are many on the market that are good and do fine. The two companies that come to mind are Grove Enterprises and Hamtronics. Both companies are excellent to deal with and offer quality merchandise. Check with both of these companies. The one thing I like about Grove Electronics unit is that it is variable gain !

As well as a keypad light, I'd be interested in this for my Pro-2004 unit. Anybody care to comment on this. I'll be happy to forward anything to Roy.

I have had a request from an anonymous person to ask if anyone knows if the descramblers that were once made by some companies, if they can still be had. Anyone help me out on this ? These were the ones that could descramble the single sideband "donald duck" sounds and let you hear them. Are they still made and if so, who got them for sale ? All responses will be kept confidential!!!!!! You need not give your name if you wish

From another regular contributor to this column, Ken Roberts, comes these comments Ken advised after reading the April column on the review of the Pro-34, he went out and bought one. Welcome to the Pro-34 club Ken! Said after the comments on excellent reception on 800 MHZ. frequencies, it really sold him. Ken goes on to say that the Pro-34 is the best hand-held for 800 MHZ reception. Better than the AR-900 and the BC-200XLT. The Pro-34 surprised him on performance. The Bearcat wins out over the Pro-34 only in a couple of areas! The '200 audio is a little louder and the scan speed a little faster. The Pro-34, as you know, can use more easily available batteries, and has a few more nice features

In case you <or anyone else> is interested, the stainless steel belt clip used on the AOR AR-900 will fit the Pro-34 without modification. The steel clip is longer than the plastic one found on the Pro-34 I ordered one from ACE Communications for $2.00

Thanks Ken for the fine report and your kind comments!!!!! Next, from Tom Rapport-CA-?, I received a very nice letter and a request as to where he could find the lapel speaker for the Pro-34 scanners I mentioned in a previous column. I advised Tom that I was making the lapel speakers for the Pro-34 and BC-200XLT scanners for a price of $35.00 including shipping. These units are made using a quality coiled cord, plastic housings, strain reliefs, and the correct plug soldered to the end to fit the appropriate scanner. Tom bought one of these units and is very happy with the unit. If anyone is interested in a lapel speaker for the Bearcat, Regency, or Radio Shack units, please feel free to contact me, advise what unit you have and I'll get one to you for the price mentioned above These units feature a lapel clip

that will rotate 360 degrees to allow any positioning. I'm sure everyone has seen the public safety people wearing lapel speakers made by Motorola, these are on the same frame, only it is a speaker, not a speaker/mic. But on the same frame construction. As mentioned, feel free to drop me a letter for more details. There are a lot of my units in the field now, and it appears all are happy with these units as I have had no call backs.

Ok, enough sales pitch you say. I have received a document from Association of North American Radio Clubs that is entitled ANARC Guide to U.S. Monitoring Laws. This publication covers the following states: California, Florida, Indiana, Kentucky, Michigan, Minnesota, Nebraska, New Jersey, New York, North Dakota, Oklahoma, South Dakota, Tennessee, and Vermont This is an excellent directory that contains the ECPA law as well as listing the laws covering these states and who enforces them, has jurisdiction on them, penalties, and comments. This is an excellent directory covering these states mentioned above. I was fortunate to have been provided a review copy by ANARC and sent to me by Bob Horvitz. The directory answered my questions I had for Tenn. and a few of the other states I was wondering about. The cost is $7.50 and may be obtained by writing: ANARC Publications, P.O. box 462, Northfield, MN. 55057. This was compiled by ANARCS legal counsel, easy to understand, and contains 40 pages. This is the only current paperback of state scanner laws in print. My thanks to ANARC and to Bob Horvitz for forwarding me a review copy.

My next bit of information is from George DuBois-FCC Topics editor. George sends us a review of the GRE 800 MHZ. converter. I will use his review as was sent to me. This is reprinted with permission from George and U.S. Scanner News. The date is October 88. My thanks to them both. This is an abridged version of the review that appeared in USSN.

The GRE SUPERCONVERTER is a super little converter that allows reception of the 800 mHz band with any scanner capable of UHF reception. The unit is completely self-contained, using a 9 volt battery, and even comes with a little antenna that should be adequate for most metropolitan areas. The converter has been available for a couple of years but may be hard to find, since GRE is not exactly a household name. The fact is that they are a large OEM, manufacturing scanners and many other items for resale by other, more identifiable, retailers.

The converter uses Motorola plugs, not very efficient, but guaranteeing compatibility with almost every brand of scanner you are likely to use. Your antenna plugs into the antenna jack, and a short length of coax with a Motorola plug goes from the converter into the antenna jack of the scanner to be used. The only control is an on-off switch, with a little LED indicator light to indicate that the unit is on. Battery life is pretty short. GRE says it'll last one week with three hours a day of use. I guess this translates into three typical evenings of operation. Fortunately, they saw fit to provide a common coaxial type power jack on the back of the unit to allow use of an external 9-volt power supply. The little manual is printed in Japan, in some form of English. The unit is very well made, using surface mount devises exclusively.

Local oscillator operation is at 44.444 mHz, with the ninth harmonic providing the injection frequency <400 mHz>. This frequency is added to your scanner display frequency to determine the receive frequency. Installation is, of course, very simple. Operation is outstanding. The unit is very sensitive. It's overall performance appears to only be limited by the performance of the scanner or receiver used with the unit. One slight drawback is that most scanners program in 12.5 kHz steps in the UHF band, and the channels in the Cellular Telecommunications Service are spaced in 30 kHz steps, so some channels may have to be programmed as much as 5 kHz off.

GRE selected a conversion frequency of 400 mHz, placing the 851-869 mHz land mobile in the scanner range of 451.0 through 469 mHz. Now we all know that this is a pretty active band, even though 851 mHz channels are spaced 25 kHz apart, from 851.0125, there are many repeaters and links operating on 12.5 kHz offsets in the 450 mHz UHF band that can be

strong enough to be received right along with the converter output. Plus, again, don't forget about reverse images. A strong mobile telephone carrier at 454.45 mHz will also be received at 475.85 <454.45 + 21.4>, which is the frequency you want to listen to to get 875.85 mHz

This gets pretty complicated. For this reason, it's best to use the converter as a dedicated receiver, not for searching or anything like that. Then what good is it ? Simple. When your local PD or someone you want to listen to finally does go to 800 mHz, your all set. Dig out that old 210 or 220 or M400, hook it up and you can scan the five, ten, or 20 channel trunked system of your choice. You already have a new 800 mHz scanner ? Well, if your like me, I can't see you tying up your 400 channel bohemoth to try and scan some 5-channel trunked system! This is the ideal use for this beauty. And though the list price is $74.95, they've been advertised in the $60-65 range.

All in all, I'd say this is a terrific little unit, and perfect for the newcomer to 800 mHz <keeping in mind the problems noted above. as well as the pro looking for a dedicated 800 mHz setup. Performance is outstanding and the price reasonable. If you can't locate a dealer, call GRE at 1-800-233-5973.

Thank you George. Your review was very interesting and very much appreciated!

Having problems with Radio Shack scanners seems to have effected a few R.C.M.A folks ! Mike-OH-216 has gone thru a 2004 and a 2005 unit! Mike purchased the 2004 unit and it only worked 2 months or so then it died. Had bad sensitivity, keypad wouldn't work, etc. Took to Shack for repair, they sent off and it came back still unrepaired. He returned unit to them and they sent off again. This time a technician called him. Said a filter may be the problem, well, Mike waited and waited, finally went to Shack, they called and advised Mike that the entire logic circuit was shot and parts weren't available till mid August ! So they graciously swapped him a new Pro-2005, which he thought was great. Not so ! Got that unit home and it worked only 2 days ! The display didn't light up, nor did the buttons have any effect on it. Oh it beeped, but nothing happened. So thinking no problem, he reset the unit, still dead. Upset, he returned the unit to a Radio Shack and explained his difficulty. They graciously provided him with another unit. As of this writing, the second Pro-2005 unit is still working fine.

Mike advised that he had nothing but good words for the store managers who helped him out with his problems, but the radios have lost some of its luster since the beginning !

Thanks everyone for making this another interesting column. There is more to come next month with some neat reviews. I'm out of space and time, see everyone next month !

MERRY CHRISTMAS EVERYONE!!!!!! MY WIFE PAMELA AND MYSELF WISH EVERYONE THE HAPPIEST OF HOLIDAY SEASONS!!!!!! May you get all you asked for at Christmas, and a few surprises as well. Let's not forget the true meaning of Christmas during the holiday season and may God bless each and everyone of us this year. Happy New Year and may the New Year be your best year ever.

And, keeping with tradition, we'll begin with the year in review. After that, if any room left, we'll go with the input.

**January**: Seeker-Computer Aided Communications System
**February**: BC-205XLT/Cobra Frequency Directory/Ohio Federal Frequency Directory/BC-200XLT problems/BMI Nitelogger
**March**: Bearcat scanners and CTR-75 tape deck/Pro-27 and 38 scanners/A.O.R. 800 scanner/AR-2002 scanner receiver
**April**: CTR-75 tape deck accessories/Pro-34 scanner/V.H.F./U.H.F. Directory/A.O.R. AR-900 scanner
**May**: BC-205XLT/Antenna Specialist MONR-51 antenna/Pro-34 scanner/Traveler's Frequency Directory/Midwest Federal Frequency Directory/Requests for info. on BC-760 and BC-200XLT.

**June**: C.R.B. Research catalog/Bearcat-Uniden/Regency problems with radios and repair service/BC-760 PL deck information/Regency HX-1000-HX-1200 scanner batteries from Alexander Battery company/Channel Master "Monitenna"/Ferrot antenna request/Portable scanner chart-Pro-34/BC-200XLT/A.O.R. 2215 review #1

**July**: Radio Shack Discone antenna/Pro-2004 scanner/Hamtronics catalog/Benjamin Michaels Industries-"Nitelogger" tape devise review/Pro-34 scanner holster-carrier via Motorola standards/AR-2215 review #2

**August**: A.O.R.-880 scanner/FRG-9600 Modifications/Vak-Tenna/Radio Shack Personal Data Storage Device/Pro-2004 Newsletter/AR-2215 review #3

**September**: Maxon Weather Receiver WX-3 with alert/Radios being replaced/HT-Audio Booster-HTS-1

**October**: Antenna Specialists MONR-52/Grove Ant-4B antenna/Taper Box-Metro-West & BC-200XLT/FRG-9600 report after modifications/BC-200XLT/Pro-2005 scanner

**November**: Lapel speaker for portables/ANARC Guide to U.S. Monitoring/GRE 800 MHZ. converter

**December**: U.S. Scanner News Publication/Pro-2005 scanner/Arizona Frequency Directory

## U.S. SCANNER NEWS

I received a very nice gift from the publisher of U.S. Scanner News. They graciously provided me with a copy of the latest edition. This newsletter/magazine is excellent!!!! It contains a little bit of everything! From frequency lists to equipment reviews. The monthly newsletter is approximately 20 pages of easy to read print. If your serious about scanning, then this publication is for you!! I agree with a comment on the bulletin that was included in my copy, there just isn't enough of it! A sample copy may be obtained for $1.25 and a complete years subscription is $15.00. It may be ordered from: Bob's Publications, P.O. Box 1103, Vancouver, WA. 98666. My thanks to Bob and U.S. Scanner News for sending me a sample copy.

## Pro-2005 Scanner

This review of the new Radio Shack Pro-2005 is by Jerry Schumacher and forwarded to me by A/E of Arizona-Bob Schumilian. Thanks to both of these gentlemen. Here it is, word for word. Bob made a comment to me in the letter that it appears that the Pro-2004 is/was a much better deal and scanner. My thanks to Bob and Jerry. Jerry is the editor of the Arizona Frequency Directory. If anyone in Arizona would be interested in joining the members in Arizona for a nice newsletter and directory, contact Bob Schmulian. His address appears at the first of this newsletter. He'll be happy to answer any questions you may have. I received a copy of the directory and I was impressed with how much information is in here. I wish Tenn. members were willing to help do one like Arizona did. I do not have Jerry's address, but the very best of luck on continued success. The review is reprinted with the permission of these editors. Thank you! That's all till next time!!!

Despite all the rumors from coast to cost about the new R/S Pro-2005, lets take a real hands on look at this child of the famous Pro-2004. In a state of disbelief and with a little searching, I was able to locate a store with one of these unannounced state-of-the-art receivers on display. I had heard from various sources many positive improvements--400 channels--same metal case, much better sensitivity and improved selectivity, smaller footprint, faster scan and search rates, plus greater IF rejection.

As I entered the store--looking around I must admit that I didn't see anything that resembled what I perceived to be a Pro-2005. I had to ask a clerk. As the clerk removed the new unit from the shelve behind the counter and placed it on the glass counter for my inspection, I was very surprised at its appearance. Gun metal gray, almost square, flat faced 90 degree control and display panel with a small telescopic antenna sticking out the top <similar to the Pro-2021>. Even though the unit is just 2 1/4 " smaller than is predecessor, the shape and color does make it appear smaller than it really is. Although not any smaller is the price--the same $419.95.

The clerk offered to stretch out the external speaker jack that was previously plugged in to it. As I wondered why they were using an

external speaker. I told him, "no, that's not necessary." Then the gentleman offered the external antenna that was also previously in use. Again I declined. With the unit plugged in and using the hole in the top antenna I commenced to enter some frequencies that I use to test the various receivers with inside antennas.

Sky Harbor International Airport--121.2 ATIS (arrivals) was not heard. 124.3 ATIS (departures) was almost unreadable. Conditions ? I turned on my Uniden BC-200XLT with the stingy rubber ducky antenna and there they both were--readable. As I entered some other frequencies in the VHF/UHF bands, I soon was able to validate the facts, NO change in the sensitivity or selectivity despite all of the nation wide rumors!

The 2 page specification section of the smaller sized operators' manual for the Pro-2005 appears to be a copy of its predecessor. Same specs, right down the list, word for word, value for value with very few exceptions. Here are a few of the listed differences between the Pro-2004 / Pro-2005.

Sensitivity: All values the same except AM 20 db S/N 60% modulation--1100-1300 MHZ. = 5 uV instead of 3 uV. Yes, this is worse, but I cannot think of anything in the 1100-1300 AM area worth listening to; FM maybe--AM nothing.

Selectivity: No change.
Dimensions: 2 7/8" x 8" x 9 1/2"
Weight: 77.6 oz.-that is 4.85 lb. < 2.15 lb. less than Pro-2004>
Audio Power: 1.3 watts (-.5 watt less than Pro-2004> No wonder they had an external speaker hooked up in the store. Power Requirements: 120 VAC 18 W & 13.8 VDC 10 W (Pro-2004 is 120 VAC 20 W and 13.8 VDC).

-Now For The Physical-

That takes care of the paper facts. After all I had heard about the improved sensitivity and selectivity, this was my disbelief--that the specs were virtually the same except for audio output.

Now for the physical comparisons of the Pro-2004 and Pro-2005. * see note following.

1. Slightly smaller footprint.
2. Non-angled flat front control panel. very limited viewing angle. *
3. Two small front, easily breakable, swivel feet to simulate slight angle.
4. Two round half-ball rubber glued (not screwed) on rear feet. *
5. PLASTIC (gun metal gray) case-NOT metal as (simulated) rumored.
6. Much smaller (-70%) rubber keys for entry. *
7. 2 antenna inputs-- hole in top & BNC on rear.
8. Much smaller round control knobs with indents for position/location.
9. Much smaller (50% or less) display characters. *
10 NO provision for mobile mounting.

* 2. If you want to use this receiver at eye level, such as on a shelf, you might have a problem. The viewing angle is somewhat limited. Seems that it is designed for in-store -- short customers-- unit on counter, demonstrations.

*4. The 2004 has four screwed in rubber feet. the 2005 has only 2 back glued on rubber feet. Be very careful not to bump these or you have a rocking 2005 and a few trips attempting to find replacements. Maybe R/S has a stock number for these.

*6. The contact area for finger tip entry is small rubber keys which may provide for feel in the dark, easy entry. These keys, although similar to the Pro-2021, appear somewhat smaller. The new (to the 2005) or old (to 2021) technology may require total disassembly after 12 to 18 months of use, to clean the metal deposits from the contact board. the rubber key membrane usually has metal impregnated into it for contact and after prolonged use the contact board requires cleaning. Many TV remote controls are the same. It's as if the design engineers took a step backwards.

*9. If you are border line as to needing glasses-- better make that

appointment with your Optometrist if you purchase the Pro-2005. the display numbers are much smaller, thinner, and harder to read. In a vehicle, at 55 MPH, with slight bounce, forget about reading it ! Of course some of us do listen by voice recognition only.

With smaller display and limited angle, a plastic case without provisions for mobile mounting--same or worse sensitivity and selectivity specs, same limited test results, less audio output, breakable front swivel feet and glued on rear rubber feet and small rubber keys for entry area-- I feel that it is more like a $200 receiver for the same ($419) money as the 2004. The unanswered question is, can the whole 800 band be restored ? Based on all the other rumors which proved erroneous-- I will not speculate even though I was told yes. The Pro-2004 is (was) the best thing coming down the pike for big city listening and the Pro-2005 should do as well. This statement is based only on the image frequency rejection aspect of the Pro-2004. As for fringe areas or Military Aircraft listening, I feel that this is NOT the radio for anyone. Yes, there is a 2nd antenna <BNC-rear> provision. Do not expect to use the top antenna provided with the Pro-2021, if you loose the antenna for the Pro-2005-- they are different sizes! So much for an objective review (for a change>. Note: still no SSB reception for $419 plus tax!!!!

That just about covers everything for this month ! I hope you have enjoyed and my family hopes that Santa is generous to everyone. One final comment, with our city now operational on the new 800 trunking system of theirs, I have discovered a few things doing comparison on my portable scanners-the BC-200XLT and the Pro-34. I live in the county away from all the radio towers and such. I am like in no mans' land to begin with, and I have compared both portables on the new system, the conclusion I have come to is that the Pro-34 is much more sensitive than the BC-200XLT !!!! Beats it hands down ! I can pick up the control channel crystal clear on the Pro-34, the BC-200XLT didn't even pick it up ! Even on the cars' 800 MHZ gain antenna ! Need I say more on which unit I prefer ?????

HAPPY HOLIDAYS EVERYONE !!!!!

GEORGE ALSO SAYS THAT KGW-AM620 (NOW AN ALL TALK STATION) IS USING 170.15 MHz FOR "FEEDBACK" OF ITS TRAFFIC REPORTS (ALTHOUGH, IT IS SOMETIMES SHUT OFF BEFORE THE REPORT IS OVER). GEORGE NOTES THAT IT ACTS AS A NICE "REPEATER" OF THEIR OTHERWISE SIMPLEX 455.5125 MHz.

JUST RECEIVED AN UPDATE FROM BRIAN JOHNSON (CA-SD-073) WHO SENDS INFORMATION FOR THE SAN DIEGO UNION-TRIBUNE PUBLISHING COMPANY. AS SOME OF US MIGHT REMEMBER, BRIAN WRITES AN OCCASIONAL ARTICLE FOR POPULAR COMMUNICATIONS AND WAS A REPORTER & NEWSCASTER FOR SEVERAL SMALL RADIO OUTLETS IN ARIZONA AND NEW MEXICO. BRIAN TELLS US THAT THE UNION-TRIBUNE RECENTLY ACQUIRED SEVERAL NEW FREQUENCIES. SOME OF THE NEW FREQUENCIES ARE BEING USED FOR PHONE PATCHES. BRIAN SENDS THE FOLLOWING FREQUENCIES FOR THEIR OPERATIONS.

SAN DIEGO UNION-TRIBUNE PUBLISHING COMPANY (BRIAN JOHNSON)

| Mt WILSON SITE | Mt OTAY SITE | Mt PALOMAR SITE |
|---|---|---|
| 856.775 DATA CHANNEL | 856.950 DATA CHANNEL | 856.675 DATA CHANNEL |
| 857.775 DATA CHANNEL | 857.950 DATA CHANNEL | 857.675 DATA CHANNEL |
| 858.775 PHONE PATCHES | 858.950 DATA CHANNEL | 858.675 |
| 859.775 PHONE PATCHES | 859.950 | 859.675 |
| 860.775 | 860.950 | 860.675 |

THEIR SYSTEM APPEARS TO BE TRUNKED, HOWEVER, THE CHANNEL INCREMENTS APPEAR SOMEWHAT UNUSUAL FOR AN 800 MHz TRUNKED SYSTEM. BRIAN SAYS THAT THE OLD UNION-TRIBUNE 453.0 MHz FREQUENCY WILL BE USED FOR SECURITY PURPOSES AROUND THEIR BUILDING IN MISSION VALLEY. ONE OTHER FREQUENCY, 173.375 MHz IS REPORTED TO BE STILL USED FOR ROUTE DELIVERY COORDINATION.

BRIAN NOTES THAT KFMB-TV8 (SAN DIEGO) IS SCHEDULED TO BEGIN USING 450.7625 MHz SOON. MOST ACTIVITY ON THIS FREQUENCY IS EXPECTED TO BE NEWS CREWS OR AUDIO & MICROWAVE ENGINEERING.

AND FINALLY BRIAN TELLS US THAT MONICA ZECH, WHO DELIVERS RADIO AND TELEVISION TRAFFIC REPORTS FOR METRO TRAFFIC CONTROL IN SAN DIEGO, IS NOW ON A NEW FREQUENCY (455.5 MHz). STEVE SPRINGER WITH AIRWATCH TRAFFIC IS OPERATING ON 450.7125 MHz.

BRIAN WILL KEEP US UP TO DATE ON ANY NEW DEVELOPMENTS AS FAR AS THE SAN DIEGO MEDIA GOES. BRIAN WOULD LIKE TO OBTAIN ANY FREQUENCIES (OR ANY INFORMATION) FOR NEWS MEDIA USERS ACROSS THE MEXICAN BORDER IN TIJUANA. HE (AND I) HAVE YET TO DISCOVER ANY LISTINGS FOR THE MEXICAN MEDIA. CAN ANYONE PLEASE HELP US WITH MEXICAN MEDIA INFORMATION?

FINALLY THIS MONTH, KURT STOUDT (IL-342) WROTE IN FOR INFORMATION ON ESPN (ENTERTAINMENT SPORTS PROGRAMMING NETWORK) AND FOR ABC SPORTS. KURT HAS BEEN SEARCHING FOR FREQUENCIES USED DURING THE PGA CHAMPIONSHIP - U.S. OPEN AT KEMPER LAKES. KURT SEARCHED BOTH VHF & UHF BANDS WITHOUT ANY SUCCESS. THE ONLY FREQUENCIES FOR ESPN THAT APPEARED IN THIS COLUMN (SEE AUGUST, 1987) HAVE BEEN PASSED TO KURT. PLEASE HELP KURT IF YOU KNOW OF ANY ESPN/ABC SPORTS FREQUENCIES!

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SEASONS GREETINGS... ALAN

# PUBLIC SAFETY

**This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for poilice, sheriff, fire, forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway & street maintenance, port authority/bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional Public Safety editor listed below.**

**Associated Public-Safety Communications Officers, Inc.**

**OFFICIAL TEN SIGNAL LIST**

APCO states the numbering, sequence, words or word phrasing of the below listed signals may no be altered, nor may the reserved signals be otherwise implemented except by APCO. Any user may employ signal numbers upward, beginning with 10-40, as needed for local dispatching. RCMA publishes this listing in support of APCO and their uniform dispatch code efforts. We will print other dispatch codes, different from the OFFICIAL APCO listing, only to assist our membership in their continued monitoring hobby. It is hoped you find this listing useful.

| | | | |
|---|---|---|---|
| 10-1 | Signal weak | 10-19 | (In) contact |
| 10-2 | Signal good | 10-20 | Location |
| 10-3 | Stop transmitting | 10-21 | Call ( ) by phone |
| 10-4 | Affirmative (OK) | 10-22 | Disregard |
| 10-5 | Relay (to) | 10-23 | Arrived at scene |
| 10-6 | Busy | 10-24 | Assignment completed |
| 10-7 | Out of service | 10-25 | Report to (Meet) |
| 10-8 | In service | 10-26 | Estimated time of arrival |
| 10-9 | Say again | 10-27 | License/Permit Information |
| 10-10 | Negative | 10-28 | Ownership Information |
| 10-11 | ( ) on duty | 10-29 | Records check |
| 10-12 | Stand by (stop) | 10-30 | Danger/Caution |
| 10-13 | Existing conditions | 10-31 | Pick up |
| 10-14 | Message/Information | 10-32 | ( ) units needed (Specify) |
| 10-15 | Message delivered | 10-33 | Help me quick |
| 10-16 | Reply to message | 10-34 | Time |
| 10-17 | Enroute | 10-35 through 10-39 are reserved for future assignment by APCO. User option 10-40 upward. | |
| 10-18 | Urgent | | |

# PUBLIC SAFETY—NORTH EAST

**Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows—New England States, New York, Pennsylvania, New Jersey, Maryland, Delaware, and District of Columbia:**

**Gary Saffer, 6 Roach Road, Stoughton, MA 02072**

Hello, and welcome to the December edition of PSNE. As the holiday season approaches I hope each of you gets that special present (even if it's not scanner related). This month we have the end of year index and a whole bunch of other good stuff.

## 1989 PSNE Index

JANUARY
Eastern Mass. Public Safety Updates
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Anne Arundel County 800 mhz system
Sturbridge Mass. Area frequencies
Suffolk County NY frequencies
PA State Police radio system
FEBRUARY
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Maryland Eastern Shore, Worcester, Wicomico frequencies
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Miscellaneous MA frequencies
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Glen Falls NY Police Department

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**Connecticut, Stephen Repetto, 42 Glenstone Dr., Vernon, CT 06066-4202**

Stephen has sent along a list of Fire Departments for Connecticut compiled by John (NY-308), broken down by counties. The list is several pages long and will take several months to publish.

*New Haven County Fire Departments*

Beacon Falls 33.64 Dispatch 33.70 Mutual Aid Hose Co #1 Fire and Ambulance
Derby Fire Dept. 33.44 Dispatch 33.70 Mutual Aid
Storms Rescue and Ambulance
Guilford Fire Dept. 46.06 Dispatch "Control 1"
North Guilford Fire Dept and Rescue Squad
Oxford Fire Dispatch "Station J" 33.70
Oxford Fire and Ambulance, Oxford Center Fire Co., Quaker Farms VFC, Riverside Fire Dept.
Seymour Fire Dispatch "Fire Control" "New Haven C-Med" 45.16
Seymour Fire Dept., Seymour Volunteer Ambulance Corps.
West Haven Fire Alarm 46.50
Allington Fire Dept., West Haven Fire Dept., West Shore Fire Dept.
Ansonia Fire Dept. 46.20 Stations 1&2
Bethany Volunteer Fire Dept. and Ambulance Corps. 33.70
Branford Fire Dept. 46.06
Cheshire Fire Dept. 33.62 "Station C" Stations CM,C1,C2,C3
East Haven Fire Dept. 33.52 Hamden Fire Dept. 33.54
Madison Fire Dept. 46.06 "Control 2" Middlebury Fire Dept. 46.08
Milford Fire Dept. 154.34 "Fire Alarm"
North Branford Fire Dept. 33.70 Companies 1,2,3,4 and Ambulance
Orange Fire Dept. 45.24 Prospect Fire Dept. 33.70
Southbury Fire Dept. 33.70 Southbury Training School 33.84
Wolcott Fire Dept. 33.70 "Fire Central"
Waterbury Fire Dept. 154.325 Woodbridge Fire Dept. 45.24

Next month we will have more of John's list. Thank's for the list John.

**Maine, Position Open**

From Gregory, our only consistent Maine contributor comes the ten codes for the Maine Department of Transportation. The following are APCO standard codes. 10-1,2 10-4 thru 9, 10-13, 10-20,21.

*Maine Department of Transportation*

| | | | |
|---|---|---|---|
| 10-3 | Go Ahead | 10-37 | Who is the Operator on Duty? |
| 10-10 | Out of Service (Standing by) | 10-43 | Give Signal Report |
| 10-11 | Loading Sand at Lot | 10-70 | Net Message All Copy |
| 10-19 | Return to your Headquarters | 10-80 | Alarm at Maintenance lot |
| 10-23 | Stand by | 10-82 | Reserve room for___ at ____ |
| 10-25 | Do you have contact with ___ | 10-83 | Have ___ call this station by telephone |
| 10-30 | Does not conform to Rules and Regulations | 10-85 | Notify My home I will arrive__ |
| 10-33 | Emergency Traffic at this station | 10-94 | Test Count to _____ |
| 10-36 | Correct Time | 10-99 | Emergency. All stations standby |

Also for Maine a list of various public safety frequencies sent in by John (NY-308)

Androscoggin County
City of Auburn Fire 153.89
Lewiston Fire Dept. 153.95
Poland Fire And Rescue 154.055
Civil Defense (County) 154.115
Lisbon & Lisbon Falls Fire 154.145
United Ambulance (Lewiston) 155.16
Ambulance to Hospital 155.340
County Sheriff includes Poland and Sabattus Police 155.670
Lewiston City Police and Rescue 158.79
City of Auburn Local Gov't 158.82
City of Auburn Police 159.15

**Franklin County**
County Sheriff includes Farmington and Wilton Police 155.25
County Sheriff 155.67

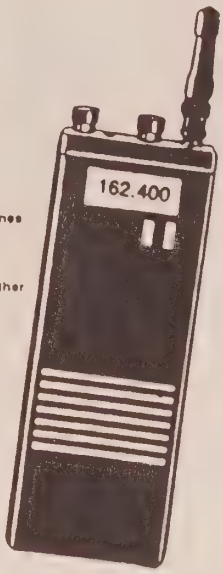
Cumberland County
Portland Fire Dept. 154.205
Standish Fire and Rescue 154.100
Naples Fire and Rescue, Long Lake Patrol Boat 154.19
Windham Fire and Rescue 154.22
Bridgeton Fire Dept. 154.235
Gray Fire and Rescue 154.325
Sebago Fire 154.355
Freeport Fire and Rescue 154.385
Gorham Fire and Rescue 7-0 base 154.40
Casco Fire Dept. 154.415
South Portland Fire 154.43
Raymond Fire and Rescue 154.445
Ambulance to Hosp. 155.325
City of Portland Police 155.49
Sheriff's Department 155.625
Falmouth Police and Rescue 155.79

# OFFICIAL
# scanner guides

## Police, Fire, Emergency & Much More

Robert A. Coburn
Steven C. Donnell

- State Police
- County Sheriff
- Local Government
- Ambulance
- Security Agencies
- Police Radar
- Forestry Service Conservation
- Power Companies
- Amateur Radio
- Business Radio Service
- General Mobile Radio Service
- Ski Patrols
- 800 MHz Business
- Marine Radio Service
- Railroads
- Hospitals
- Cordless Phones
- Highway
- National Weather Service




The frequencies are listed by Community and a Master Cross Reference by Frequency, Call Sign, and License is included.

Included are State, County, and Local system descriptions, system maps, frequency allocation tables, and explanatory notes on specific frequency usage. Aeronautical and Maritime information has been expanded and the licenses are included in the community listings.

| | | | |
|---|---|---|---|
| CONNECTICUT | | 9,373 LISTINGS | $14.95 |
| MAINE | 2ND EDITION | 8,312 LISTINGS | $14.95 |
| MASSACHUSETTS | 3RD EDITION | 13,728 LISTINGS | $21.95 |
| NEW HAMPSHIRE | 4TH EDITION | 7,455 LISTINGS | $17.95 |
| RHODE ISLAND | | 3,083 LISTINGS | $14.95 |
| VERMONT | | 3,824 LISTINGS | $14.95 |

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**Kennebec County**

Kennebec County Sheriff Dispatch 154.22
West Gardiner Fire and Rescue China Rescue Vassalboro Fire
Gardiner Communications Center 154.25
Farmingdale Pittston Gardiner Litchfield Randolph Fire Dept.s
Augusta Fire Dept. 154.40 Augusta Police 155.19
Dresden Fire Dept. 154.415 Winthrop Fire Dept. 154.995

**Oxford County**

Bethel Fire Dept. 154.025
Oxford County Fire Control 154.070
Bethel Fire and Rescue¦ Brownfield Fire¦ Buckfield Fire and Rescue¦ Canton Fire and Rescue¦ Denmark¦ Greenwood¦ Harrison¦ Hebron Fire and Rescue¦ Hiram¦ Lincoln Plantation¦ Lovell¦ Norway¦ Otisfield¦ Oxford¦ Peru¦ Stoneham¦ Sumner¦ Sweden¦ Tri-town Rescue¦ Waterford¦ West Paris¦ Woodstock
Fryeburg Fire Base 154.19
Fryeburg¦ Fryeburg Police¦ East Fryburg¦ North Fryeburg¦ Fryeburg Rescue¦ Lovell¦ Brownfield
Oxford County Sheriff And Rescue Dispatch
Sheriff units¦ Oxford¦ Bethel¦ Paris¦ Fryeburg¦ Rumford¦ Lovell¦ Waterford¦ Norway Police departments

There will be more Maine frequencies next month. Thank's John for a very nice submission.

**Massachusetts, Mariner S. Ayer Jr., 299 Thompson St Middleboro, MA 02346**

Mariner is recovering from surgery this month and so I am filling in for him. I have a list of CTCSS (PL) tones mostly, for Massachusetts that were sent to me anonymously. These supplements and in some cases replaces the information in the November 1988 and April 1989 issues.

Agawam Police and Fire 91.5
Amesbury Fire 203.5
Ashfield Police 141.3
Auburn Police 167.9
Ayer Police 151.4
Boston EMS 151.4 (TAC 11 192.8)
Boylston Police 167.9
Cambridge Fire VHF 146.2
Foxboro Police 103.5
Holyoke Police 114.8
Medford Fire 131.8
Nantucket Fire 141.3
Natick Fire 107.2
Northhampton Fire 127.3
Randolph Fire 103.5
Somerville Fire 483.3875 483.4125 (131.8)
Springfield Fire and Police 151.4
Swampscott Fire 107.2
Wayland Fire 203.5
Weston Police 203.5 (BAPERN)
Worcester Fire 179.9
Worcester EMS 462.950 (186.2)
Capitol Police (Boston) 118.8
Arlington Fire 82.5
Ashfield Fire 123.0
Ashland Fire and Police 123.0
Future Auburn Fire 154.385 82.5
Bellingham Police 103.5
Boxford Police 123.0
Burlington Fire 482.3625 (131.8)
Chicopee Police and Fire 141.3
Holyoke Fire 123.0
Lynn Fire 131.8
Melrose Future Fire 154.385 (131.8)
Nantucket Police 114.8
Needham Fire 131.8
Northampton Police 131.8
Revere Fire 154.205 (123.0)
Springfield area mutual aid (82.5)
Waltham Fire 123.0
Weston Fire 123.0
West Springfield Police and Fire 167.9
Worcester Police 151.4
Himmer Ambulance Co. 484.0125 (71.9)
Mass Dept of Correction UHF 151.4
Northern Essex County Police Emer. Radio Network (NESPERN) 146.2
Western Mass. Law Enforcement Council (WEMLEC) 460.225 460.475 (173.8)

New Hampshire statewide standard PL tone Police and Fire 136.5. There are some exceptions. Manchester Fire 469.600 460.625 192.8

New York City Fire all VHF 186.2 Fire marshals 460.575 460.625 (173.8)

Rhode Island Cranston Fire 192.8 North Providence Fire 167.9

And a correction to the August 89 PSNE. Merrimack Valley Paramedic 2 is 155.265 not 155.625.

**New Jersey, Richard D. Prail, PO Box 1274, W Caldwell, NJ 07007**

From Mark (NJ-293) we have the following info for Bridgewater Township.

Fire Departments 33.94 Greenknoll, Bradley Gardens, Martinsville, North Branch, and Country Hills.
154.310 Finderne
Police 154.115 Dispatch 155.310 Auxiliary
Public Works 159.165 (shared with Police)
Rescue Squads 155.310 Martinsville uses 155.160
Hospital frequency 155.340 Squad Chatter 155.295

Mark would also like frequency info for JCP&L, PSE&G and Somerset Airport if you have any send it to Richard who will pass it on to Mark. Thank you Mark.

From an unknown party comes the Bergen County NJ Police Department Signals.

8 Injured Person Call/ First Aid
8x First Aid Oxygen Needed
9 Meal Break
10 Relief
20 Give Location
21 Radio Test
31 Burglary in Progress
32 Burglary Past
33 Burglar Alarm ringing
34 Suspicious person or auto
35 Disorderly Person(s)
36 Drunk Driver
40 Armed Holdup in Progress
41 Armed Holdup Past
44 Assault
46 Homicide
47 Theft
48 Missing/Lost Person
49 Elopement from Hospital
50 Criminal Mischief
51 Property Damage
53 Medical Examiner Call
54 Traffic Detail
55 Assist other Police Department

*Bergen County Frequencies*

F-1 477.1625 R Dispatch
F-2 477.1625 S Car to Car
F-3 477.1875 R Countywide
F-4 477.1875 S Car to Car Alternate
F-5 477.2125 R Tactical repeater
F-6 477.2125 S Tactical
F-7 477.7125 R Sheriff's Dispatch
F-8 477.7125 S Sheriff's Car to Car

56 Disabled vehicle
0-57 MV accident No injuries
57 MV Accident Injuries or unknown
58 Fire
59 Electronic Alarm of Fire
65 Parking Complaint
67 WSAR Response
68 Photo Detail
69 Hit and Run MV accident
71 Pedestrian MV accident
72 Ambulance Needed
73 Paramedics Needed
74 Tow Truck needed
75 Tow Truck needed Impound
76 Respond to_____
77 Swat Team response
78 K-9 Response
79 Hazmat Incident
80 Escort
81 Escort Headquarters
84 Switch to Frequency ____
85 Meet another Patrol Unit at ____
86 Phone HQ at your convenience
87 Phone HQ as Soon as Possible
87A Phone your residence no emergency
87B Phone your Division Office
88 Report to Headquarters
90 Unit out of Service at call/detail
91 Unit back in service
92 Disregard Call-resume Patrol
93 Motor Vehicle Stop
94 Stolen/wanted/NCIC check
95 DMV Information Request
96 Assist other Unit
97 Is radio clear for transmitting?
98 All units clear the air-emergency
99 Bomb threat
100 Stolen or wanted Record Active
101 Assist Officer Emergency
102 Critical or Dangerous situation Use Caution
R-1 Vacant House check

Just in time for the Winter month's we have a list of road maintenance frequencies for Middlesex, Somerset, Monmouth Counties and surrounding areas submitted by Lou (NJ-253)

47.260 State Operations Freehold Trenton
45.760 State Operations Englishtown
37.940 State Operations Ocean City Middletown
45.880 State Operations Perth Amboy
851.3375 Garden State Parkway Northern Half
852.1625 Garden State Parkway Southern Half
851.7375 Turnpike New Brunswick Area
857.2625 Middlesex County
159.180 New Jersey Turnpike Weather and Road Condition Reports
453.875 New Jersey Turnpike road service and road conditions
156.060 Middlesex County Local Operations
154.955 Sayreville Borough
151.025 Middlesex County Highway Department
159.910 East Windsor

New York City, Philip Caruama, 7225 73rd St, Glendale Queens, New York, NY 11385

From Carl (NY-117) we have a list of some of the specialized units of the New York City Police Special Operations Division. This is a very long list and consists of mostly vehicle numbers and assignments. I have gone through and picked out the units which include Callsigns and Vehicle descriptions.

AVIATION UNIT

Aviation 1 Patrol Helicopter
Aviation 2 Medevac Helicopter
Aviation 8 Huey Air/Sea Rescue
Aviation 9 Medevac Helicopter

Aviation 4 Patrol Helicopter
Aviation 5 Patrol Helicopter
Aviation 6-7 Patrol Helicopters
Aviation 11 Bell 412SP Air/Sea Rescue
Aviation 12 Huey Air/Sea Rescue
Aviation 14 Bell 412SP Air/Sea Rescue

EMERGENCY SERVICE UNIT (ESU)

| | | | |
|---|---|---|---|
| Squad 1 | 13th Pct Manhattan North | Squad 6 | 68th Pct South Brooklyn |
| Squad 2 | 26th Pct Manhattan South | Squad 7 | 75th Pct Central Brooklyn |
| Squad 3 | 43rd Pct Southeast Bronx | Squad 8 | 90th Pct North Brooklyn |
| Squad 4 | 50th Pct Northwest Bronx | Squad 9 | 113th Pct Southern Queens |
| Squad 5 | 122nd Pct Staten Island | Squad 10 | 109th Pct Northern Queens |

Supervisors
ESU-1 Commanding Officer
ESU-2 Executive Officer with *RMI 4
ESU-3 Operations Lieutenant
ESU-4 Bronx Manhattan
ESU-5 Brooklyn, Queens, Staten Is.
ESU-6 Lieutenant
ESU-7 RMI 2 at Truck 2
ESU-8 Bomb Truck with RMI 1
ESU-9
ESU-10 RMI Supervisor with RMI 3
ESU-20
ESU-21 Specialized Training School
Radio Emergency Patrol
Trucks 1-10 (Heavy Rescue Vehicles)
"Cars" (GMC Sierra 3500 Crew Cab Utility Body Pickup Trucks)
Adam 1,2,3,4,5,6,7,8,9,10 Boy 1,2,3,5,6,7,8,9,10
Charlie 1,2,3,5,6,8,9,10 David 1,6,8
*RMI Remote Mobile Investigator (6 Wheeled Robot)

MOUNTED UNIT
Troop A Manhattan Troop B Manhattan Troop D Bronx
Troop E Brooklyn Troop F Queens Troop G Queens

HARBOR PATROL
"Harbor Adam" Base Howard Beach
"Harbor Charlie" Base 52nd St Pier
"Harbor George" Base College Point
Scuba Base 52nd St Pier

| | | | |
|---|---|---|---|
| Launch 1 | 48' Patrol Boat | Launches 18-19 | Patrol Boat |
| Launch 2 | 48' Patrol Boat | Launches 21-22 | Patrol Boat |
| Launch 3 | 52' Patrol Boat | Launch 24 | Patrol Boat |
| Launch 7 | 52' Scuba Launch | Launches 26-27 | Patrol Boat |
| Launch 8 | 52' Scuba Launch | Launches 31-34 | Patrol Boat |
| Launch 13 | 52' Patrol Boat | Launches 301-304 | Patrol Boat |
| Launch 16 | Patrol Boat | | |

Thank you Carl for a very interesting and unusual piece of info.

**New York State, Joe Nooney, PO Box 30, Valatie, NY 12184**

This is the remainder of the info compiled and sent in by Paul (NY-332) and Jim (NY-152).

Betrand Chaffee Hospital 155.340
Boston Emergency Squad 155.880
Cattaraugus County Sheriff 39.14
Chautaugua County Sheriff 156.210
Chautaugua County Fire 46.10, 46.14
Cheektowaga Fire 46.28
Cheektowaga Police 155.610 Dispatch 154.950, 159.090
Columbus Hospital 155.325
Degraff Hospital 155.340
East Aurora Fire Dept. 46.24
East Aurora Police Dept. 155.640
Town of Hamburg Police 155.790
Village of Hamburg PD 155.055,155.79
City of Lancaster Fire 46.28
City of Lancaster Police 155.655
Monroe County Sheriff 158.955, 159.030
Orleans County Sheriff 155.430
Village of Springville Fire 46.32
Wyoming County Ambulance 155.175
Wyoming County Fire 46.18
Wyoming County Sheriff 155.010
Yates County Fire 46.50

Many thanks to Paul and Jim for providing this western New York information. Next year central New York will be covered courtesy of Jim. I also hope to hear from people in the Adirondacks, Southern Tier, Lower Hudson Valley and anywhere else. It's up to you. Until next year, please be careful during this festive time of year. I want all of you to be around in 1990.

Well, that's about it for this month (and this year). Just a few last minute items. The Boston Police are getting ready to put the 89 cruisers in the field. These are reported to have the first of the MDT's in them. The Mass. State Police are fielding more and more cars without light bars but otherwise fully marked. (ala CHP). The Metro Police trunked system is still evolving and the latest report is full trunking will be on line before the end of the year.

The LoJack corporation has filed a request with the FCC to have the frequency of 173.025 designated as a national vehicle recovery system frequency. The request is being opposed by a group representing TV stations on Channel 7 and by the FBI. LoJack is currently attempting to expand it's system to the Los Angeles system and eventually wants to have a

nationwide system to track stolen cars. LoJack, by the way, is a system which puts transmitter in cars and receivers in police cars. When a stolen car is reported to the company which activates the transmitter. The signal is received in the police car and the car is tracked. The company claims a high recovery rate and wants to go nationwide. No decision has been made on the request as of press time. See you next month.

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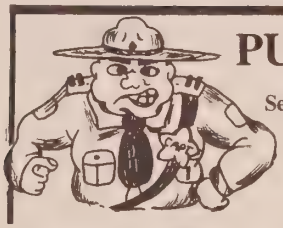

# PUBLIC SAFETY—SOUTH EAST

**Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows—Florida, Georgia, N. Carolina, S. Carolina, W. Virginia and Virginia:**

**Robert K. Cooke, 717 Seven Oaks Ln, Columbia, SC 29210**

Welcome to the December column of PS/SE. This is being written after Hurricane Hugo devastated the coast of South Carolina. The damage to property is severe but the loss of life was low due to the coordinated efforts of Public Safety officials and the Hams in evacuating the coast. The people of South Carolina want to thank the rest of the nation for all the support that you've provided to the victims of HUGO. I will be listing all the material covered in the last year for your reference. We will also look at the Brunswick-St Simon Island, Georgia area in a submission from Associate Editor Steve Giovanis. Steve also sent in some questions from Bobbie (GA-111) concerning certain radio signals that he's heard and wishes information as to usage.

(1) Are there any special codes or signals used by Georgia Law Enforcement officers when a drug raid is taking place?
(2) What does a signal 65 PBA-PHA mean?
(3) What does a signal 86 mean?
(4) What does a signal 61 money transfer mean ?

Any help that our Georgia members can provide will be appreciated. Please forward all responses to Steve at the address in the front of this issue.

From A/E Steve Giovanis

**Brunswick-St Simon Island Georgia**

| | | |
|---|---|---|
| 154.3850 | Glynn Co Fire & Rescue SQ. | Ch.1 |
| 159.2100 | Glynn County Sheriff Department | Ch.1 |
| 154.7700 | Glynn County Sheriff Department | Ch.2 |
| 154.9350 | Glynn County Sheriff Department | Ch.3 |
| 154.9050 | Glynn County Sheriff Department | Ch.4 |
| 155.4900 | Glynn County Sheriff | Ch.5 |
| 155.5350 | Glynn County Sheriff | Ch.6 |
| 154.2200 | Brunswick Fire Department | Ch.1 |
| 154.2800 | Brunswick Fire Department | Ch.2 |
| 159.1500 | Brunswick Police Department | Ch.1 |
| 155.0700 | Brunswick Police Department | Ch.2 |
| 154.9350 | Brunswick Police Department | Ch.3 |
| 154.9050 | Brunswick Police Department | Ch.4 |
| 155.4900 | Brunswick Police Department | Ch.5 |

| | | |
|---|---|---|
| 154.9350 | State of Georgia Sheriff's Net (Base) | |
| 154.9050 | State of Georgia Sheriff's Net (Car) | |
| 154.4000 | Jeckyll Island Fire & Rescue SQ. | Ch.1 |
| 154.3400 | Glynn County E.M.S. | Ch.1 |
| 155.1750 | Glynn–Brunswick Memorial Hospital | Ch.1 |
| 463.1750 | Glynn County E.M.S. | Med–08 |
| 158.8350 | Glynn County Local Gov't | Ch.1 |
| 159.1650 | Camden County Sheriff | Ch.1 |
| 154.8450 | Camden County Sheriff | Ch.2 |
| 154.9350 | Camden County Sheriff | Ch.3 |
| 154.9050 | Camden County Sheriff | Ch.4 |
| 154.8450 | Kingsland Police Department | Ch.1 |
| 155.8800 | Camden County E.M.S. | Ch.1 |
| 155.1600 | Camden County E.M.S. | Ch.2 |
| 463.1750 | Camden County E.M.S. | Med–08 |
| 154.8450 | McIntosh County Sheriff | Ch.1 |
| 154.9350 | McIntosh County Sheriff | Ch.3 |
| 154.9050 | McIntosh County Sheriff | Ch.4 |

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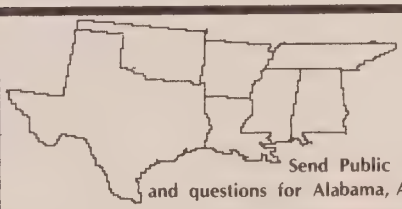
| Clinton, SC | 3–89 | 60 |
| Collenton County, SC | 2–89 | 41 |
| Columbia, NC | 8–89 | 57 |
| Craven County, NC | 9–89 | 57 |
| Danbury, NC | 1–89 | 48 |
| Dania, FL | 1–89 | 51 |
| Dare County, NC | 9–89 | 57 |
| Darlington County, SC | 2–89 | 41 |
| Darlington, SC | 1–89 | 49 |
| Dillon County, SC | 2–89 | 41 |
| Dillon, SC | 1–89 | 49 |
| Dorchester County, SC | 2–89 | 41 |
| Due West, SC | 3–89 | 60 |
| Edenton, NC | 8–89 | 57 |
| Edgefield County, SC | 2–89 | 41 |
| Elizabeth City, NC | 9–89 | 57 |
| Fairfax County, VA | 7–89 | 64 |
| Fairfax, VA | 7–89 | 64 |

| | | |
|---|---|---|
| Fairfield County, SC | 2–89 | 41 |
| Falls Church, VA | 7–89 | 64 |
| Farmville, NC | 5–89 | 65 |
| Florence County, SC | 2–89 | 41 |
| Florence, SC | 1–89 | 49 |
| Florida Highway Patrol Signal Codes | 3–89 | 61 |
| Forest City, NC | 1–89 | 49 |
| Forsyth County, NC | 7–89 | 62 |
| Ft. Belvoir, VA | 7–89 | 64 |
| Gaston County, NC | 10–89 | 56 |
| Gastonia, NC | 10–89 | 56 |
| Gates County, NC | 8–89 | 57 |
| Georgetown County, SC | 2–89 | 42 |
| Greenville County, SC | 2–89 | 42 |
| Greenville, NC | 5–89 | 65 |
| Greenwood County, SC | 2–89 | 42 |
| Greenwood, SC | 3–89 | 60 |
| Halifax County, NC | 8–89 | 57 |
| Hampton County, SC | 2–89 | 42 |
| Hartsville, SC | 1–89 | 50 |
| Hemingway, SC | 1–89 | 50 |
| Herndon, VA | 7–89 | 64 |
| Hertford County, NC | 8–89 | 58 |
| Holly Ridge, NC | 9–89 | 57 |
| Horry County, SC | 2–89 | 42 |
| Jacksonville, NC | 9–89 | 57 |
| Jasper County, SC | 2–89 | 42 |
| Johnsonville, SC | 1–89 | 50 |
| Kannapolis, NC | 10–89 | 56 |
| Kershaw County, SC | 2–89 | 42 |
| Kill Devils Hills, NC | 8–89 | 58 |
| King, NC | 1–89 | 48 |
| Kingstree, SC | 1–89 | 50 |
| Lake City, SC | 1–89 | 50 |
| Lamar, SC | 1–89 | 50 |
| Lancaster County, SC | 2–89 | 42 |
| Laurens County, SC | 2–89 | 42 |
| Laurens, SC | 3–89 | 60 |
| Lee County, SC | 2–89 | 42 |
| Lexington County, SC | 2–89 | 42 |
| Lincoln County, NC | 10–89 | 57 |
| Long Beach, NC | 9–89 | 58 |
| Manteo, NC | 8–89 | 58 |
| Marion County, SC | 2–89 | 42 |
| Marion, SC | 1–89 | 60 |
| Marlboro County, SC | 2–89 | 42 |
| McCormick County, SC | 3–89 | 60 |
| Miami Beach, FL | 1–89 | 47 |
| Mt Airy, NC | 1–89 | 48 |
| Mullins, SC | 1–89 | 50 |
| N. Wilkesboro, NC | 1–89 | 48 |
| Nags Head, NC | 8–89 | 58 |
| New Bern, NC | 9–89 | 57 |
| New Hanover County, NC | 9–89 | 57 |
| Newberry County, SC | 2–89 | 42 |
| Ninety Six, SC | 2–89 | 60 |
| North Augusta, SC | 3–89 | 60 |
| Northhampton County, NC | 8–89 | 58 |
| Oconee County, SC | 2–89 | 42 |
| Ogden, NC | 9–89 | 57 |
| Olanta, SC | 1–89 | 50 |
| Onslow County, NC | 9–89 | 57 |
| Orangeburg County, SC | 2–89 | 42 |
| Pasquotank County, NC | 8–89 | 58 |
| Pender County, NC | 9–89 | 57 |
| Perquimans County, NC | 8–89 | 58 |
| Pickens County, SC | 2–89 | 42 |
| Pinnellas County, FL | 7–89 | 62 |
| Pitt County, NC | 5–89 | 65 |
| Plymouth, NC | 8–89 | 58 |
| Richland County, SC | 2–89 | 42 |
| Roanoke Rapids, NC | 8–89 | 58 |

| | | |
|---|---|---|
| Rowan County, NC | 10-89 | 57 |
| Rutherford County, NC | 1-89 | 49 |
| S. Lynches, SC | 1-89 | 50 |
| S.C. County Law Enforcement | 2-89 | 41-3 |
| S.C. Disaster Preparedness | 1-89 | 50 |
| S.C. Fire Depts Listing Part I | 7-89 | 62 |
| S.C. Fire Depts Listing Part II | 9-89 | 55 |
| S.C. Fire Depts Listing Part III | 10-89 | 58 |
| S.C. Forestry | 1-89 | 51 |
| S.C. Highway Patrol | 1-89 | 51 |
| S.C. Law Enforcement Div. | 5-89 | 65 |
| S.C. Wildlife Department | 8-89 | 58 |
| Saluda County, SC | 2-89 | 42 |
| Shallotte, NC | 9-89 | 57 |
| Society Hill, SC | 1-89 | 51 |
| Southport, NC | 9-89 | 58 |
| Spartanburg County, SC | 2-89 | 42 |
| St Petersburg, FL | 7-89 | 62 |
| Stokes County, NC | 1-89 | 48 |
| Sumter County, SC | 2-89 | 42 |
| Supply, NC | 9-89 | 57 |
| Surf City, NC | 9-89 | 58 |
| Surry County, NC | 1-89 | 48 |
| Swain County, NC | 1-89 | 49 |
| Timmonsville, SC | 1-89 | 51 |
| Topsail, NC | 9-89 | 58 |
| Transylvania County, NC | 1-89 | 49 |
| Tyrell County, NC | 8-89 | 58 |
| Union County, SC | 2-89 | 43 |
| Vienna, VA | 7-89 | 62 |
| Ware Shoals, SC | 3-89 | 61 |
| Washington County, NC | 8-89 | 58 |
| Watauga County, NC | 1-89 | 49 |
| Wilkes County, NC | 1-89 | 49 |
| Wilkesboro, NC | 1-89 | 49 |
| Williamburg, SC | 1-89 | 51 |
| Williamsburg County, SC | 2-89 | 43 |
| Wilmington, NC | 9-89 | 57 |
| Winston Salem, NC | 7-89 | 63 |
| York County, SC | 2-89 | 43 |



## PUBLIC SAFETY - SOUTH CENTRAL

Send Public Safety and Special Emergency frequencies, radio system details, and questions for Alabama, Arkansas, Louisiana, Mississippi, Tennessee, Oklahoma, and Texas to

Ed Lentz, 609 Yorkshire, Pasadena, TX 77503-1450

GEnie - ELENTZ DELPHI - THISARSE COMPUSERVE - 72645,172

Merry Christmas and a Happy New Year from the staff of Public Safety—South Central. We hope you will receive that special present that you have been wanting for so long.

It's time to make plans for the new year also. I hope you will include sending in a list of frequencies that you are monitoring in your area as part of those plans. Many Public Safety departments are switching to the 800 MHz frequencies and releasing their old VHF/UHF frequencies for others to use. I would like to keep our files as current as possible and so would others. We depend on you to help us do that.

Since many of you have computers and there is a database program available from RCMA for IBM compatible, you have no excuse now not to put your frequency list on computer. Since I have MS\DOS machines I only know about them and do know there is an excellent Database program available for a small fee from shareware that is very good called PC-FILE and available from many sources that specialize in shareware. If you want your frequency list to include more that the program available from RCMA, this is the way to go. If you have another type of machine and can read in an ASCII text file, then I have some frequency list available on GEnie that may be of some help in getting you started.

### ARKANSAS

Still have a place available for someone in the State of Arkansas to be an Assistant Editor. The info on this is available elsewhere in this Newsletter.

Jeff (AR–010) has again filled us in with frequencies from the area of Hot Springs Arkansas. Jeff is a consistent contributor and we appreciate his efforts to keep us up to date with that area of the state.

| COUNTY | CITY | AGENCY | CH | RPT OUT | RPT IN | CALL | USED FOR/BY |
|---|---|---|---|---|---|---|---|
| GARLAND | HOT SPRINGS | AMI AMBULANCE | | 155.2050 | 0.0000 | | |
| GARLAND | HOT SPRINGS | ARKLA GAS | | 153.4100 | 0.0000 | KKV340 | UNKNOWN |
| GARLAND | HOT SPRINGS | CONSOLDTD SCHOOL DISTR | | 37.3000 | 0.0000 | | |
| GARLAND | 70 WEST | FIRE DEPARTMENT | | 154.4150 | 0.0000 | KUI665 | DISPATCH |
| GARLAND | HOT SPRINGS | FIRE DEPARTMENT | | 154.3400 | 0.0000 | KKZ302 | DISPATCH |
| GARLAND | LAKE HAMILTON | FIRE DEPARTMENT | | 154.4450 | 0.0000 | KTR614 | DISPATCH |
| GARLAND | MORNING STAR | FIRE DEPARTMENT | | 154.2650 | 0.0000 | KNIK462 | |
| GARLAND | PINEY | FIRE DEPARTMENT | | 154.2350 | 0.0000 | KQF722 | DISPATCH |
| GARLAND | HOT SPRINGS | GAME AND FISH | 1 | 51.1750 | 0.0000 | KKZ923 | |
| GARLAND | HOT SPRINGS | GAME AND FISH | 2 | 151.3850 | 0.0000 | KKZ923 | |
| GARLAND | HOT SPRINGS | HIGHWAY DEPARTMENT | | 151.0700 | 0.0000 | | |
| GARLAND | HOT SPRINGS | HOT SPRINGS NAT'L PARK | | 166.3250 | 0.0000 | | |
| GARLAND | HOT SPRINGS | HOT SPRINGS VILLAGE | | 153.8150 | 0.0000 | WNLV997 | |
| GARLAND | HOT SPRINGS | HOT SPRINGS VILLAGE | | 153.8600 | 0.0000 | KAA945 | |
| GARLAND | COUNTY | LOCAL GOVERNMENT | | 453.6250 | 458.6250 | KWQ594 | ROAD DEPT. |
| GARLAND | HOT SPRINGS | POLICE DEPARTMENT | | 155.4150 | 0.0000 | KDQ370 | DISPATCH |
| GARLAND | HOT SPRINGS | PUBLIC WORKS | | 453.6750 | 458.6750 | WNBZ925 | DEPARTMENT |
| GARLAND | HOT SPRINGS | RESORT TELEVISION CABLEVI | | 464.2750 | 469.2750 | KYM607 | |
| GARLAND | COUNTY | SHERIFFS DEPARTMENT | | 154.8450 | 0.0000 | KKF280 | |
| GARLAND | HOT SPRINGS | ST JOSEPH HOSPITAL | | 155.3400 | 0.0000 | KVI507 | |
| GARLAND | HOT SPRINGS | STATE POLICE | | 44.7400 | 0.0000 | | |
| GARLAND | HOT SPRINGS | STATE POLICE | | 151.0100 | 0.0000 | | |
| GARLAND | HOT SPRINGS | YELLOW CAB | | 152.4500 | 157.7100 | KKM936 | |
| GARLAND | HOT SPRINGS | YELLOW TRANSIT | | 453.7750 | 458.7750 | KNCG394 | BUSSES |
| HOT SPRING | MALVERN | POLICE DEPARTMENT | | 155.9700 | 0.0000 | WNLQ246 | |
| JEFFERSON | PINE BLUFF | UNION PACIFIC | | 161.5500 | 0.0000 | | |
| MONTGOMERY | MOUNT IDA | FIRE DEPARTMENT | | 155.5950 | 0.0000 | | DISPATCH |
| PIKE | COUNTY | SHERIFFS DEPARTMENT | | 154.7550 | 158.7300 | WNGV828 | DISPATCH |
| PULASKI | LITTLE ROCK | UNION PACIFIC | | 160.4100 | 0.0000 | | |
| SALINE | BENTON | POLICE DEPARTMENT | | 155.5800 | 0.0000 | KNFW496 | DISPATCH |
| STATE | | SHERIFFS DEPARTMENT | | 37.2400 | 0.0000 | | INTER-AGENCY |

## LOUISIANA

**JEFF WALDROP, 1018 Bee Tree, Westlake, LA 70669**

Greetings Everyone—Hope this month's newsletter finds everyone doing just great!

I have some misc. frequencies I downloaded off the Electronics Roundtable on GEnie. I have about 10 pages of Frequencies for the Bayou State. Please let me know how they work out!

**Louisiana Forestry Commission:**

031.380 Fire Control Towers—Statewide
031.500
031.580
031.700
031.940

118.925 Fire Control Aircraft—Nationwide
118.950
119.750

**Louisiana Wildlife & Fisheries:**

031.060 Game Warden—Statewide

**Louisiana National Guard:**

034.900 Convoy Operations—Statewide
036.710 Escort Service Net Primary—Statewide
036.890 Escort Service Net Secondary—Statewide
036.900 Tactical Channel 10—Statewide

Month to month, I will continue to drop in a few of these.

## OKLAHOMA

**JAY KRUCKENBERG, Rt. 2 Box 31, Mooreland, OK 73852**

With winter almost upon us I thought this month we would take a look at the Oklahoma Dept. of Transportation. ODOT operates a system of repeaters across the state and brings us valuable weather and road conditions. Each office broadcasts weather conditions as things change. These range from storm warnings to road condition reports to general observations about the weather. When the weather is not a concern, the radio traffic consists mainly of the daily operations of ODOT. This can get pretty boring at times, but you can learn what roads are tied up for repair which might save you some time. The frequencies for ODOT are as follows.

| Repeater Output | Repeater Input | Division | Use |
|---|---|---|---|
| 151.015 | 156.060 | 3, 5, 8 | Highway Maint. |
| 151.040 | 156.135 | 2, 4 | Highway Maint. |
| 151.115 | 156.120 | 1, 6, 7 | Highway Maint. |
| 151.100 | Unknown | Statewide | Administration |
| 159.000 | Unknown | Turnpike | Highway Maint. |
| 159.120 | Unknown | Turnpike | Highway Maint. |

**PORTABLE:** 151.415
**FUTURE USE:** 158.880 & 159.195

If anyone comes across any of the input frequency that differ or finds any of the future use channels in operation, please let me know and I will update this list.

More of Richard's (OK–053) list from the Tulsa area.

**Tulsa County Sheriff Department**
155.070 Repeater
158.910 153.775 Possible input to repeater
154.955 Possible input to repeater

**Broken Arrow Police Department**
453.700 Repeater
453.900
453.950 Possible Repeater

**Broken Arrow Fire Department**
453.225 Repeater

**Broken Arrow Misc.** (use unknown)
153.995
155.820 Repeater
158.805
158.955 Input to 155.820
452.375 Repeater
453.525 Repeater

That's all for this month. Take care and keep listening.

## TENNESSEE

**CURTIS HARBIN, P.O. Box 5576 EKS, Johnson City, TN 37603**

It's happened folks. Another city has gone 800 MHz. The Johnson City Fire and Police departments have made the switch. I understand that the Sheriffs Department will also be going 800 in the very near future. The frequencies for Johnson City are:

856.2375
857.2375
858.2375
859.2375860.2375

## TEXAS

**ROBERT BARKER, 1801 Wells Branch Pkwy #1630, Austin, TX 78728**

Hello Texas. Thanks to all of you who took the time to write to me over the summer. Having mentioned in last month's issue about having a rather complete Dallas area list from Brad Carpenter, I got an immediate request from Kelly (TX– 198) for DFW frequencies even before the column made publication. Kelly is a sophomore at TCU and sent a list of what he's been able to gather so far. Here is just a small sample of what Kelly has.

**Richardson Police** Ch 1 453.775 Dispatch (Ch 2 Direct)
Ch 3 453.675 Info
Ch 4 453.475 Car to Car
**Richardson Fire** Ch 1 453.325 Dispatch (Ch 2 Direct)
Ch 3 453.450 Fireground
(Ch 4 direct)

The city of Richardson does have MDT's. The Public Works for Richardson is on 153.905. Dallas Tollway repeater is on 157.350. During severe weather, Collin County operates Skywarn on 147.180.

**Garland Police** Ch 1 154.815 MDT's
Ch 2 154.875 Dispatch
Ch 3 154.950 Intercity Mobile (common statewide)
Ch 4 155.370 So is this one
Ch 5 155.070 Car to Car
Ch 6 155.640 Info

Kelly reports hearing DPS using 155.805 as a simplex Ch 19 in Collin County. Moving over to Ft Worth:

**Ft Worth Police** Ch 1 460.050 Ch 4 460.200 MDT's: 460.525
Ch 2 460.100 Ch 5 460.250 460.550
Ch 3 460.150 Ch 6 460.300
**Ft Worth Fire** Ch 1 856.4375 Dispatch
Ch 2 857.4375 Fireground
Ch 3 858.4375 Fireground
Ch 4 859.4375
Ch 5 860.4375 EMS
460.600 Simplex/Fire team in Structure

Kelly is looking for the frequency for the Plano Code enforcement employees if anyone can help him. Between Kelly and Brad, I'd imagine there isn't too much that hasn't been monitored.

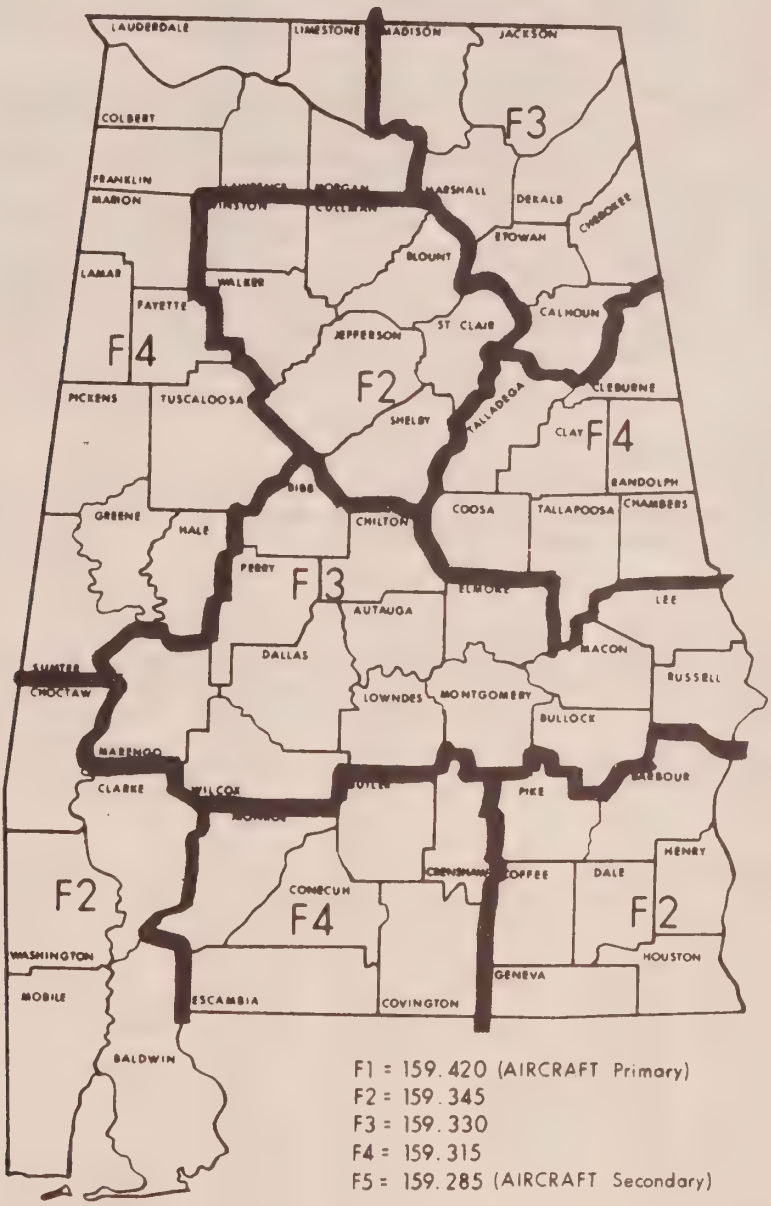
I enjoyed hearing from Thomas who wrote to get frequencies for Blinn College in Brenham and for SWTSU in San Marcos. Apparently he's enrolling the youngins' in college and didn't want to miss anything. I'm not sure about Blinn except that Washington Co can be found on 155.625. SWSTU in San Marcos has a new frequency on 155.415 (not to be confused with College Station PD which is also on this frequency). I presume that 155.700 which was the previous primary is now being used as a ch 2

or something like that. The city of San Marcos PD is on 155.130 and Hays Co is on 155.865. San Marcos fire dept is on 154.165, North Hays Co fire on 154.385, and North Hays Co EMS is on 155.895. I do not know what the South Hays Co EMS and fire are using but I suspect it may just be the City of San Marcos frequencies. Can anybody confirm?

## ALABAMA

**DAVID R. BECK, 422 Laurie Dr., Birmingham, AL 35214**

Nothing new to report from Alabama. I understand that the city of Homewood Fire Department will be switching from low band to a UHF repeater system sometime in October. Homewood is a suburb of Birmingham to the south. Also there is a map showing the Alabama Forestry Commission divisions. Hopefully, it will be reproduced in this column. If not, we will try something else




ALABAMA FORESTRY COMM.

While on a recent vacation to Hawaii, I met Billy who found me out while I was searching for new frequencies at the airport. Billy is an excellent source for frequencies for the 50th state and I hope I've convinced him to take the state editor position there. If you would like his address, or anyone mentioned in the column, just drop me a letter.

I got a call from Deseree in Houston who called to ask about modifications on her Realistic Pro 2005. She told me that her Pro 34 had recently been struck by lightening and had forced her to add another radio to her collection. You really need to be careful around bad weather. Ron also from the Houston area would like to correspond with anyone. Ron enjoys listening to just about everything and would like to exchange frequencies with other Houston area members.

Having just recently moved to the Austin area, I have a rather complete list for the area and surrounding counties. If you're interested, drop me a note. That about raps it up for the month. Have a Merry Christmas and Happy Monitoring.

# PUBLIC SAFETY—GREAT LAKES

**Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows—Illinois, Indiana, Wisconsin, Michigan, Kentucky, and Ohio:**

**Richard McLaughlin (MI-031) 3921 Marland Drive, Lansing, MI 48910**

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**Gridley, IL 61744**

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**KY - position open**

**MI - Rick McLaughlin MI-031**
**3921 Marland Drive**
**Lansing, MI 48910-4325**

**OH - Oscar Mann OH-222**
**6800 Mayfield Rd #610**
**Mayfield Heights, OH 44124-2240**

**WI - John Johnson WI-084**
**1905 E Lexington Blvd.**
**Eau Claire, WI 54701-6673**

## ILLINOIS

Our AE, Bob, reports that the McLean Co ESDA had a simulated aircraft disaster at the Bloomington-Normal airport, they were operating on 453.700 and were assisted by Amateur Radio operators.

## INDIANA

Dave IN-002 passed on the information that the Indiana National Guard is assisting the State Police in locating marijuana fields, some frequencies to listen to are:
41.85 41.90 41.50 (these are used by National Guard in all states)

## KENTUCKY

Position Vacant

## MICHIGAN

We have the rest of the list for Southeast Michigan from Bill MI-220, these are the UHF frequencies...

| | | | | | |
|---|---|---|---|---|---|
| 423.075 | Auburn Hills | Oakland | Police | | |
| 423.125 | Universal Am | Macomb | Med. | | |
| 423.300 | Dearborn | Wayne | Fire | Unknown | |
| 423.400 | Dearborn | Wayne | Fire | Unknown | |
| 423.425 | Allen Park | Wayne | Police | | |
| 423.500 | Dearborn | Wayne | Police | Unknown | |
| 425.375 | Transportation D | Wayne | Civil | Detroit | |
| 425.475 | Highland Park | Wayne | Police | | |
| 435.525 | Highland Park | Wayne | Police | | |
| 450.050 | | | Media | WJBK-TV | |
| 450.087 | | | Media | WDIV-TV | |
| 450.112 | | Wayne | Media | Metro Traffi | |
| 450.150 | | | Media | WJBK-TV | |
| 450.212 | | | Media | WWJ-AM | |
| 450.350 | | | Media | Metro-Choper | |
| 450.387 | | | Media | WDIV-TV | |
| 450.412 | | | Media | WXYZ-TV | |

| | | | | | |
|---|---|---|---|---|---|
| 450.487 | | | Media | Mtero-Choper | |
| 450.587 | | | Media | WDIV-TV | |
| 450.612 | | | Media | WXYZ-TV | |
| 450.700 | | | Media | Metro-Choper | |
| 451.600 | | | Media | WXYZ-Office | |
| 452.525 | AAA of Michigan | | Civil | Towing | |
| 452.550 | AAA of Michigan | | Civil | Towing | |
| 453.025 | Detroit | Wayne | Police | Organized Cr | |
| 453.050 | Saint Clair | St.Clair | Police | Sheriff | |
| 453.050 | Dearborn | Wayne | Police | Base | |
| 453.150 | | Wayne | Air | Security | |
| 453.250 | Detroit | Wayne | Police | Prec.14-16 | CH-6 |
| 453.300 | Detroit | Wayne | Police | Prec.7-9-13 | CH-3 |
| 453.325 | Detroit/Surveill | Wayne | Police | HQ. Unit | CH-8 |
| 453.350 | Detroit | Wayne | Police | Prec.1-2-3-4 | CH-1 |
| 453.375 | Detroit | Wayne | Police | Computer | CH-9 |
| 453.425 | Detroit | Wayne | Police | Computer | CH-10 |
| 453.450 | Warren | Macomb | Fire | Dispatch | KQD 459 |
| 453.450 | | Wayne | Air | Runway Crew | |
| 453.450 | | Wayne | Air | City Maint. | |
| 453.475 | Detroit | Wayne | Police | Transit | |
| 453.550 | Detroit | Wayne | Police | Special Evnt | CH-5 |
| 453.550 | State Fair | Wayne | Police | Detroit Poli | |
| 453.700 | Detroit | Wayne | Police | Prec.5-8-15 | CH-7 |
| 453.750 | Detroit | Wayne | Police | Prec.6-10 | CH-2 |
| 453.775 | Detroit | Wayne | Police | Tac 6 | |
| 453.775 | Detroit | Wayne | Police | Cobo-Hart | |
| 453.800 | Detroit | Wayne | Police | Prec.11-12 | CH-4 |
| 453.875 | Detroit | Wayne | Police | Tac Mob | CH-11 |
| 453.925 | Detroit | Wayne | Police | Command | CH-12 |
| 453.975 | Detroit | Wayne | Police | Detectives | CH-13 |
| 455.000 | | | Media | WXYZ-TV | |
| 455.050 | | | Media | WXYZ-TV | |
| 455.087 | | | Media | Post-Newswek | |
| 455.412 | | | Media | Post-Newswek | |
| 455.587 | | | Media | Post-Newswek | |
| 455.612 | | | Media | Ch. 7 News | |
| 455.650 | | | Media | WXYZ NewsRm | |
| 455.750 | | | Media | WJR-Chopper | |
| 457.375 | Transportation D | Wayne | Civil | Detroit | |
| 458.050 | Dearborn | Wayne | Police | Mobile | |
| 460.025 | State Fair | Wayne | Police | State Police | |
| 460.050 | Saint Clair | St.Clair | Police | Sheriff | |
| 460.050 | Tri-County Repea | | Police | | |
| 460.075 | Saint Clair | St.Clair | Police | Sheriff | |
| 460.100 | Berrien County | Berrien | Police | Sheriff | |
| 460.112 | Warren | Macomb | Police | F2 | |
| 460.150 | Sterling Heights | Macomb | Police | Mutual Aid | Utica |
| 460.150 | East Detroit | Macomb | Police | | F2 |
| 460.150 | Macomb County | Macomb | Police | F3 Sheriff | |
| 460.175 | Monroe County | Monroe | Police | Sheriff | |
| 460.200 | Sterling Heights | Macomb | Police | F2 Utica & | Shelby |
| 460.200 | Shelby / Utica | Macomb | Police | | |
| 460.250 | North Macomb | Macomb | Police | F1 Sheriff | |
| 460.250 | Southgate | Wayne | Police | | |
| 460.275 | Detroit | Wayne | Police | Reserves | |
| 460.275 | Saint Clair | St.Clair | Police | Sheriff | |
| 460.300 | St.Clair Shores | Macomb | Police | | |
| 460.300 | St. Clair | St.Clair | Police | Sheriff | |
| 460.325 | Warren | Macomb | Police | Dispatch | KQB 275 |
| 460.325 | Clinton & Fraser | Macomb | Police | | |
| 460.325 | Clinton County | Clinton | Police | Sheriff | |
| 460.350 | Saint Clair | St.Clair | Police | Sheriff | |
| 460.375 | Fraser & Clinton | Macomb | Police | | |
| 460.400 | Macomb County | Macomb | Police | F2 Sheriff | |
| 460.425 | Warren | Macomb | Police | F2 | |
| 460.425 | Center Line | Macomb | Police | | |
| 460.425 | Centerline | Macomb | Police | | |
| 460.425 | Eaton County | Eaton | Police | Sheriff | |
| 460.450 | Port Huron | St.Clair | Police | | KQB 272 |
| 460.450 | Saint Clair | St.Clair | Police | Sheriff | |
| 460.475 | Sterling Heights | Macomb | Police | F1 | KGW 749 |
| 460.500 | East Detroit | Macomb | Police | F1 | |
| 460.500 | Roseville | Macomb | Police | | |
| 460.575 | Macomb Twp. | Macomb | Fire | | |
| 460.575 | Macomb Twp. | Macomb | Fire | | |
| 460.575 | Macomb Township | Macomb | Fire | | |
| 460.600 | Southfield | Oakland | Fire | | |

| FREQ | CITY | COUNTY | TYPE | INFO | OTHER | CH |
|---|---|---|---|---|---|---|
| 460.625 | Sterling Heights | Macomb | Fire | City Freq. | KSZ 435 | ___ |
| 460.755 | | Wayne | Air | American Air | | ___ |
| 460.825 | | Wayne | Air | Delta | | ___ |
| 460.875 | | Wayne | Air | Northwest | | ___ |
| 461.300 | Cedar Point | | Civil | Security | | ___ |
| 461.500 | Bob-Lo Island | | Civil | | | ___ |
| 462.575 | | Wayne | Media | Mich.Emerg.P | | ___ |
| 462.675 | Detroit | Wayne | Civil | Warrendale C | | ___ |
| 462.950 | Detroit | Wayne | Med. | EMS | | ___ |
| 462.950 | | State | Med. | Hospital | CH-9 | ___ |
| 462.950 | Ambulance Networ | Statewid | Med | | | ___ |
| 462.950 | O_COM | Oakland | Med. | HERN | | ___ |
| 462.975 | Detroit | Wayne | Med. | EMS | | ___ |
| 462.975 | | State | Med. | Hospital | CH-10 | ___ |
| 462.975 | Ambulance Networ | Statewid | Med | | | ___ |
| 463.000 | | State | Med. | Hospital | CH-1 | ___ |
| 463.025 | | State | Med. | Hospital | CH-2 | ___ |
| 463.050 | | State | Med. | Hospital | CH-3 | ___ |
| 463.075 | | State | Med. | Hospital | CH-4 | ___ |
| 463.100 | | State | Med. | Hospital | CH-5 | ___ |
| 463.125 | | State | Med. | Hospital | CH-6 | ___ |
| 463.150 | | State | Med. | Hospital | CH-7 | ___ |
| 463.175 | | State | Med. | Hospital | CH-8 | ___ |
| 463.175 | Croswell | Sanilac | Police | | | ___ |
| 463.575 | AAA of Michigan | | Civil | Towing | | ___ |
| 463.575 | Fed.Protection S | | Police | | | ___ |
| 463.925 | | Wayne | Air | American Air | | ___ |
| 464.375 | Cedar Point | | Civil | Operations | | ___ |
| 464.550 | | Wayne | Media | Metro TFC | | ___ |
| 464.575 | Cedar Point | | Civil | Operations | | ___ |
| 464.675 | Dearborn | Wayne | Med | Oakwood Ops | | ___ |
| 464.875 | St.Joseph Hospit | Macomb | Med | Operations | | ___ |
| 465.300 | Ingham County | Ingham | Police | Sheriff | | ___ |
| 467.950 | | State | Med. | Paramedic | CH-9 | ___ |
| 467.975 | | State | Med. | Paramedic | CH-10 | ___ |
| 468.000 | | State | Med. | Paramedic | CH-1 | ___ |
| 468.025 | | State | Med. | Paramedic | CH-2 | ___ |
| 468.050 | | State | Med. | Paramedic | CH-3 | ___ |
| 468.075 | | State | Med. | Paramedic | CH-4 | ___ |
| 468.100 | | State | Med. | Paramedic | CH-5 | ___ |
| 468.125 | | State | Med. | Paramedic | CH-6 | ___ |
| 468.150 | | State | Med. | Paramedic | CH-7 | ___ |
| 468.175 | | State | Med. | Paramedic | CH-8 | ___ |
| 482.075 | Sterling Heights | Macomb | Police | UNKNOWN | | ___ |
| 811.137 | Detroit | Wayne | Police | Gang Squad | | ___ |
| 853.062 | | Oakland | | Civil Def. | | ___ |
| 853.112 | Oakland County | Oakland | Police | Sheriff | | ___ |
| 853.162 | Bloomfield Twp. | Oakland | Police | Fire | KNGD822 | ___ |
| 853.212 | Troy | Oakland | Police | UNKNOWN | | ___ |
| 856.137 | Detroit | Wayne | Police | Gang Squad | | ___ |
| 873.012 | Detroit | Wayne | Police | UNKNOWN | | ___ |

## OHIO

Oscar has had a quiet month, so we don't have anything for you this time.

## WISCONSIN

Here is John's information this month...

Wisconsin New Frequency Applications - September, 1989

| | | | |
|---|---|---|---|
| 154.010 | Whitewater FD (Walworth) | 155.055 | Colby LG (Clark) |
| 154.175 | Antigo FD (Langlade) | 154.250 | Greenwood FD (Clark) |
| 453.450 | Lancaster LG (Grant) --458.450 in | 46.080 | Caledonia FD (Racine) |
| 154.010 | Peshtigo FD (Marinette) | 154.190 | Peshtigo FD |
| 154.295 | Peshtigo FD | 154.130 | Bayfield County EG |
| 453.900 | Oconto County LG --458.900 in | 155.940 | Rusk County LG |
| 155.640 | Eau Claire PD Dispatch Freq. | 155.055 | Richland Center LG |
| 158.865 | Brookfield PD (Waukesha) | 155.730 | Nekoosa PD (Wood) |
| 453.8125 | Port Washington LG (Ozaukee)458 in | 158.820 | Antigo LG (Langlade) |
| 154.085 | Peshtigo LG (Marinette) | | |

My thanks to Larry (WI-005) for all of those. Eau Claire PD has not switched to the

155.640 frequency as of mid-September. Carl (WI-054) reports that the PD will switch to GE mobiles and King portables. They do have the King portables now, and I'm still trying to get a look at the mobiles. The Kings are 14 chan. units. Carl also sent some information for Jerome (TX-246) for the Milwaukee area. Thanks alot Carl for all of the good information. You seem to know what is going to happen in my own city before I even hear about it!!! Good work!

That is all for this month. Next month I will finish up the WSP profile from the article that Bill Mauldin sent a couple months ago. Let me hear from a few more Wisconsin members!!

# 1989 INDEX

**January**

| | | | |
|---|---|---|---|
| Canton | OH | 59 | Oscar OH222 |
| Greene Co | IN | 59 | Dave IN002 |
| State Police | IN | 59 | Dave IN002 |
| misc police | IN | 60 | Dave IN002 |
| " | KY | 60 | Dave IN002 |
| Fond Du Lac | WI | 60 | John WI084 |

**February**

| | | | |
|---|---|---|---|
| Evansville | IN | 49 | Jeff IN060 |
| Henderson | KY | 49 | Jeff IN060 |
| Owensboro | KY | 49 | Jeff IN060 |
| State Police | IL | 49 | Jeff IN060 |
| Highway Dept | WI | 50 | John WI084 |
| Eau Claire | WI | 50 | Larry WI005 |
| Berrien Co | MI | 50-51 | Mark MI184 & Jim CASF30 |
| ClevelandEMS | OH | 51 | Oscar OH222 |
| Akron FD | OH | 51 | Oscar OH222 |

**March**

| | | | |
|---|---|---|---|
| Lima FD | OH | 48 | Oscar OH222 |
| Toledo FD | OH | 48 | Oscar OH222 |
| Dayton FD | OH | 48 | Oscar OH222 |
| misc police | IN | 49 | Tim IN058 |
| Indianapolis | IN | 49 | Tim IN058 (air crash) |
| new freqs | WI | 49 | Larry WI005 |
| State Police | WI | 50 | John WI084 |
| Westmont | IL | 50 | Denny Fed/Mil Ed |
| corrections | OH | 50 | Marty TX216 & Jeff ID-010 |

**April**

| | | | |
|---|---|---|---|
| Hamilton Co | OH | 57 | Peter MA155 |
| Jefferson Co | KY | 57 | Peter MA155 |
| Joliet | IL | 57 | Ron IL009 |
| Berrien Co | MI | 57 | Terry MI097 |
| State Police | MI | 58 | Rick MI031 |

**May**

| | | | |
|---|---|---|---|
| northern | IN | 55 | Brent IN105 |
| new freqs | WI | 56 | Larry WI005 |
| Madison | WI | 56 | Bob WI101 |
| new freqs | WI | 56 | Larry WI005 |
| upper penin. | MI | 57 | Gene CASN004 |

**June**

| | | | |
|---|---|---|---|
| Howard Co | IN | 55 | anon |
| Toll Road | IN | 55 | Brent IN105 |
| Highway Dept | IN | 55 | Brent IN105 |
| " map | IN | 56 | Brent IN105 |

| | | | | |
|---|---|---|---|---|
| Madison | WI | 56 | Bob | WI101 |
| new freqs | WI | 57 | Larry | WI005 |
| NW Chicago | IL | 57-59 | Richard | IL370 |
| Detroit | MI | 59-60 | Philip | MI056 |
| Detroit map | MI | 61 | Kevin | MI028 |

**July**
no column this month

**August**

| | | | | |
|---|---|---|---|---|
| new licenses | OH | 59 | Oscar | OH222 |
| Ferdinand | IN | 59 | Dave | IN002 |
| new freqs | WI | 60 | Larry | WI005 |
| Highway Dept | WI | 60 | Carl | WI054 |
| northwest | WI | 60 | Roger | MN052 |
| Green Bay | WI | 61 | Ron | IL310 |
| northern | MI | 61 | anon | |
| Owensboro | KY | 61 | Dave | IN002 |

**September**

| | | | | |
|---|---|---|---|---|
| misc freqs | IN | 54 | Brent | IN105 |

**October**

| | | | | |
|---|---|---|---|---|
| Cleveland | OH | 59 | Oscar | OH222 |
| Dublin | OH | 59 | Vern | OH204 |
| north cent | IN | 59 | Brent | IN105 |
| new freqs | WI | 59-60 | Larry | WI005 |
| Detroit FD | MI | 60-61 | Robert | MI108 |

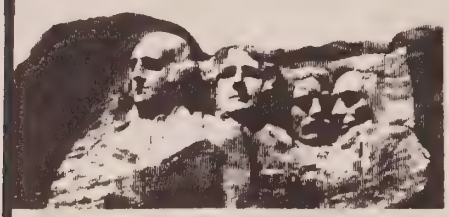
**November**

| | | | | |
|---|---|---|---|---|
| McLean Co | IL | ?? | Bob | IL-AE |
| Cook Co | IL | ?? | Brent | IN105 |
| southeast | MI | ?? | Bill | MI220 |

**December**

| | | | | |
|---|---|---|---|---|
| Indianapolis | IN | ?? | Mike | IN111 |
| southeast | MI | ?? | Bill | MI220 |
| new freqs | WI | ?? | Larry | WI005 |
| 1989 Index | | ?? | | |

That's all for now. Monitoring.... Rick



# PUBLIC SAFETY NORTH CENTRAL

**Send Public Safety and Special Emergency frequencies, radio system details and questions as follows—Iowa, Kansas, Minnesota, Missouri, Nebraska, North and South Dakota:**

**Michael W. Scheel, 410 W. Garfield, Davenport IA 52803-1415**

Welcome to another PS - NC. I have digging deep for something to write about in the IOWA section and Steve couldn't send anything send anything for KANSAS. On to sections.

**iowa > > > > >**

Davenport PD Command cars now have vhf-hi radios. They have been heard on 156.210 County F1, and 155.475 NLEECN. The actual channel plan is probably the same as the Sheriff.but not known yet. (MWS)

Related to above is is some deputies has uhf portables. (MWS)

A study of Iowa DOT has recommanded that half of all State Highway garages be closed. However that shouldn't cut down on snow removal. Just take longer to clear the roads. The study also recommended that the state expand its summer preventive maint. program. (MWS)

Eastern Iowa School Districts (MWS)

| | | | |
|---|---|---|---|
| Clarence-Lowden | 462.175 | Lincoln (Mechanicsville) | 461.650 |
| Lost Nation | 45.960 | Northeast (Goose Lake) | 461.800 |

The new areawide fire radio numbering plan is closer than ever to reality, with agency supervisory personnel getting accustomed to it. Some agencies are already using all identifiers, and the rest should switch over around January 1st. Some have indicated that they will only use it for Mutual Aid activity. For an up-to-the-minute summary of the entire plan, send me a s.a.s.e. and a couple of extra stamps, and I'll send you an update in January, when the new plan takes effect. This update will have any last-minute changes too late for printing, and will come from the constantly updated listing in my Apple 2+. Does anyone still use Apple computers? Below are some recent changes:

| | | | |
|---|---|---|---|
| 2100 | Richmond Heights FD | 8000 | Gerald FPD |
| 2500 | Brentwood FD | 8100 | Washington FPD/Ambulance |
| 2600 | University City FD | 8200 | Union FPD/Ambulance |
| 2700 | Olivette FD | 8300 | St. Clair FPD/Ambulance |
| 3200 | Clayton FD | 8400 | New Haven FPD |
| 3300 | Ballwin FPD | 8500 | Boles FPD |
| 3500 | Manchester FPD | 8800 | Orchard Farm FPD |
| 7600 | Pacific FPD | 9200 | Lake St. Louis FPD |
| 7700 | Sullivan FD | 9500 | St. Charles FPD |
| 7900 | Beaufort/Leslie FPD | 9600 | St. Charles Co. Ambulance |

NEXT MONTH...We have some information from Southwest Missouri, courtesy of MIKE (MO-131). Close to this column is a St. Louis County Police District Map. Have a nice holiday season, and for those who celebrate Christmas, please remember the real meaning behind it. See you next year!

nebraska >>>>>
n. dakota >>>>>
s. dakota >>>>>

-associate editors needed-
-nothing to report-

misc. dept. >>>>>

this is in small print. Send something in! -30-

# PUBLIC SAFETY WEST

**Send Public Safety and Special Emergency frequencies, radio system details and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming to:**

**George N. Hoggatt, 17473 E. 16th Dr, Aurora, CO 80011**

ELECTRONIC MAIL: COMPUSERVE 71077,2554; 75373,573; DELPHI JORG

As you can see from the above, I have electronic mail again. I will eliminate one of the Compuserve numbers soon, probably the second one. Try this to get info to me as I know my mail is going astray again. If you have sent me info that has not appeared, let me know.

Things are a little thin this month after a busy summer. Some of the associate editors are still without help. We can't put this together without your help. Quit sitting around and saying "next week I'll send in those frequencies." Send them in today.

**********

## ALASKA

associate editor needed
NOTHING THIS MONTH

**********

## ARIZONA

Bob Schmulian, 4415 N. Rockcliff Rd., Tucson, AZ 85715

TUCSON PD Eric AZ-005

800 units - detectives assigned to crimes against persons
900 units - detectives assigned to crimes against property
George - the gang squad
Sam - the K9 units (GOG) for tracking and crowd control as well as narco detection
Edward - the bomb squad
TAC 10, 20, 30, 40, 50 - all of the sergeants assigned to this unit. The other four officers in each group are the field TAC officers. The TAC squad is also the SWAT unit for the Department.

METRO NARCO: This unit was formed in about 1980 on a county wide basis to suppress narco crime. Each department in the Tucson area supplies one officer to the unit; i.e. South Tucson, University of Arizona PD, Pima County Sheriff, Tucson Police and the State Department of Public Safety.

Metro 1 - the commander of the unit, usually a captain
Metro 2, 3, 4, 5, 6 - sergeants
The regular officers have numbers higher than 6.

Adam 1 team - A group of officers assigned to the Spanish American area on the west side.

**********

## COLORADO

associate editor needed

From Pat CO-057

Pat sent along some clippings about three teenagers in Loveland that used a transmitter to send obscene and bogus information to the police in Loveland, Greeley and Sterling. They broadcast phony accident calls, and bomb calls. Two were former members of the police Explorer program. Ham radio operators assisted in locating the transmitter. The trio is expected to be charged with several felonies including impersonating an officer, false reporting and disrupting police communications.

Pat also sent along some information on a high band skip transmission that caused some excitement in Utah, Wyoming and Colorado. It was on 155.610 and originated in Utah. It was heard in Coalville Utah and Green River Wyoming. A citizen? used a police radio to call for help for an incident involving a plain clothes officer. There was no problem but the wires were hot for a little while.

From a friend who wishes to remain unidentified:

Reed Ambulance - 462.575, 464.750, 855.2625, 851.2375. We have confirmed all but the first one. Since it is a CB class A channel, it has a lot of traffic.

Aurora has approved $900,000 for a new computer to be used in their Computer Aided Dispatch system. I don't think this is enough money to implement the trunked system too.

As of this date (October 14) neither the Denver nor the Aurora trunked systems are active with Police or Fire.

Speed enforcement - Denver area:
453.900 Denver Police ch. 8. Vascar setups use this repeater chan.
453.725 Aurora Police ch. 3. Vascar again
154.695 CSP tactical channel - used with the aircraft

More State of Colorado frequencies:
154.665 CSP Trinidad (MRD 2D1) and CSP Denver West (MRD 6A1)
154.680 CSP Durango/Cortez (MRD 5A1), CSP Summit County (MRD 6B1), CSP Aurora District channel (I70 Denver to Kansas)
154.695 CSP District 4 district channel (Grand Junction), CSP Alamosa (MRD 5B1), TAC 1 most areas not using it, SERT Region TAC 1
154.725 Archuletta County Sheriff
154.740 CSP Limon (MRD 1A1), CSP Boulder (MRD 1B1)
154.755 CSP Burlington (MRD 1A2), CSP Hot Sulphur Springs (MRD 6B2), Executive Security
154.770 CSP mobile to base in District 3 Greeley, CSP Pueblo/Canon City/Salida (MRD 2A1), Pitkin County Sheriff (Aspen)
154.830 CSP Craig (MRD 4B1), CSP Denver east (MRD 1C1)
154.845 Craig Police, CSP District 5 channel (Durango)
154.875 Wyoming mutual aid
154.905 CSP channel 3 statewide
154.920 CSP NW Adams County (MRD 1D1), Statewide Haz-Mat team
154.935 CSP District 3 base to mobile, District 2 channel (Pueblo)
154.950 Boulder County yellow channel
155.040 Woodland Park Police
155.160 National Search and Rescue
155.280 Colorado Mountain Rescue
155.310 Corrections statewide,CSP Craig - control for remote repeaters on Juniper Mtn., Mellen Hill and Roundtop Mtn.
155.340 HEAR
155.445 CSP control for the Cheyenne Wells repeater (Limon & Burlington), Kiowa repeater (Kiowa and Limon), Homestake repeater (Alamosa and Mineral County), Saguache Peak repeater (Alamosa and Saguache County), Resberry repeater (Montrose and Nucla), Mt. Crested Butte repeater (Gunnison), Hill 71 repeater (Lake County and Gunnison), Simla repeater (Limon), Boyero repeater (Limon, Burlington and Cheyenne Wells), First View repeater (Burlington and Cheyenne Wells),

| | | | |
|---|---|---|---|
| Calamus | 45.960 | Central (DeWitt) | 46.000 |
| Camanche | 45.960 | Clinton | 155.160 |
| Muscatine | 461.775 | North Scott (Eldridge) | 464.225 |
| Pleasant Valley | 464.125 | Bettendorf | *462.950 |
| Davenport | 151.745 | Midland (Wyoming) | 461.025 |
| Washington | 43.000 | Clear Creek | 45.960 |
| Solon | 155.175 | Cedar Rapids | 33.080 |
| Linn-Mar (town?) | 464.950 | Marion | 43.000 |
| Springville | 45.920 | | |

Anyone out there figured out Clinton PD squad numbering system? It is not the officer badge number. (MWS)

If you have gone to your state fair please send anything radiowise in, ok?

## kansas >>>>>

Steve Jester, 1115 N Park, Wellington KS 67152

-nothing to report.

## minnesota >>>>>

Jerry Ensign, PO Box 28148, Crystal, MN 55428-0148

From Roger W. West MN-052 "Minnesota Snow Plows"

151.070 Minn F-1 Statewide
151.115 Minn F-2 Statewide
151.025 Minn F-3 Statewide
151.055 Minn F-4 Statewide

159.180 Chisago County
45.720 Washington County
453.525 Ramsey County
150.995 Pine County
151.040 Dakota

From John P. Arendt IL-12 (Summer on Cass Lake)

164.825 Chippewa National Forest (KAC207) Local weather heard at 0700 & 1600 hours daily.
151.115 (156.075 input) MN Dept of Transportation
151.025 DOT ch 3 "Bagley Local"
171.575 Aircraft speed checks
161.100 Burlington Northern Railroad (& occasionally SOO Line Trains)
151.265 DNR (KAG429 Cass Lake Base & KAG420 Bemidji Area HQ) "Baker 1" chopper spotting fires.
155.685 (154.755 input) Beltrami County Sheriff
155.610 Bemidji, Blackduck & Kelliher Police channel. Units are numbered in the 800 series.
154.785 Hubbard County Sheriff (From J.E. try 153.965) Units are numbered in the 500 series.
154.725 (155.910 input) Cass County Sheriff
155.790 (154.950 input) Cass County Sheriff (southern half of county.
155.895 (153.965 input) Cass Lake PD city radio & LG Cass County units are numbered in the 800 series.
45.360 Cass County Public Works
118.925 (From J.E.) Forestry - Fire Fighting

## missouri >>>>>

Michael G. Redman, MO-002, PO Box 49, High Ridge, Mo. 63049

Greetings, Folks, and welcome to the December column. My apologies for the lack of a column last month, but the same postal service that loses your Newsletters also lost my column. Nevertheless, I did take a suggestion from an earlier Newsletter and sent my ailing Bearcat 300 to the Electronic Repair Center in Franklin Park, Illinois. It was in their facility only two days and was right back to me, working better than ever. Quite a difference from the last unit that I sent to the manufacturer, who lost it. I would recommend this establishment for scanner repair. They may be reached at 312-455-5105, and are quite reasonable.

Westcreek Repeater (Colorado Spgs.)
155.460 CBI statewide
155.475 NLEEC statewide (channel 4 in all Patrol cars)
155.490 Boulder County Sheriff bronze
155.505 CSP Denver west District 6 channel, Coaldale repeater (MRD 2A1), Westcreek repeater (MRD 2B1), Utah Mutual Aid
155.520 Boulder County Sheriff violet, Rio Blanco County Sheriff
155.550 Vernal Utah PD

All of these frequencies (including previous lists) are in some state cars somewhere. Most of the police ones are in the CSP, CBI and Wildlife cars, others as needed. Some are systems installed and maintained by the State and may be licensed to the local unit or the State or both.

**********

HAWAII
associate editor needed
NOTHING THIS MONTH

**********

IDAHO
George Wight, P.O. Box 732, Groveland, CA 95321
NOTHING THIS MONTH

**********

MONTANA
associate editor needed
NOTHING THIS MONTH

**********

NEVADA
Fred McGowan, P.O. Box 879, Las Vegas, NV 89101

Henderson PD is now using channel 2 in the repeater mode. Was previously used only in simplex mode. 155.610

Nevada Department of Commerce - 155.070 simplex in Las Vegas area

Nevada Highway Patrol - Southern Nevada
42.940 ch. 1 Rural area dispatch (mobiles on 42.780)
42.500 ch. 2 car to car
42.700 ch. 3 car to car
42.880 ch. 4 Metro Las Vegas area dispatch
42.800 ch. 7 car to car - often used for speed enforcement with the NHP aircraft on I-15
42.560 ? car to car
42.340 California Highway Patrol channel in all NHP cars
154.920 mobile extenders - can repeat any of the above frequencies
155.475 ch. 1 in hand held radios - unit to unit
155.655 ch. 2 in hand held radios - unit to unit

**********

NEW MEXICO
associate editor needed
NOTHING THIS MONTH

**********

OREGON
Al Musgrove III, 2402 McAndrews Rd., Medford OR 97504
NOTHING THIS MONTH

**********

UTAH
John Parken, 4672 S. Deer Creek Rd., Salt Lake City, UT 84124
NOTHING THIS MONTH

**********

WASHINGTON
Kenneth E. MacLeod, P.O. Box 2495, Friday Harbor, WA 98250
NOTHING THIS MONTH

**********

WYOMING
Christopher D. Smith, P.O. Box 1229, Ogden, UT 84402
NOTHING THIS MONTH

**********END PUBLIC SAFETY WEST**********

# PUBLIC SAFETY—CALIFORNIA

Editor: Dan Figueroa, CA-LA-359,
P. O. Box 2895, La Puente, CA 91746

From the staff of PS-CA. we want to extend the best of holiday seasons to all and thank everyone who has taken the time to write, telephone. visit, read and even those who use the pages of this column to cover the bottom of bird cages. As we close 1989, Gary and myself will be looking forward to hearing from you in 1990. Happy Holidays and we will switch to the Index Channel...

JAN: Oakland PD freqs, radio ID's and codes; CDF RU-3200 ID's, and San Bernardino SO assignments and freqs.

FEB: News clips on San Gabriel Valley NET teams & Scanner use to help capture drag racers; Riverside PD freq change; CDF RU-1700 ID's; and Radio ID's for Knott's Berry Farm.

MAR: Special guest columnist Eric [CALA-045] with San Bernardino SO info and tour report; List of ham radio software; and the proposed 482 MHz bandplan.

APR: Santa Clara CFD ID's; LAFD's 800 MHz channel plan notes; CDF RU-1200 freqs; Questions on LAFD freq; Miscellaneous 800 MHz freqs; Sacramento SO info; TV visual and audio freqs; Skip freqs received from GA; and a Friday the 13th news reporter's nightmare.

MAY: LASD 482 MHz info; San Bernardino CDF RU-3500 ID's and freqs; Riverside mall freqs; and Riverside PD ID's.

JUN: Article on 9-1-1 TV program; Berkeley PD, Alameda PD & FD info; San Jose FD info; Stockton area 800 MHz freqs; Redding PD change to 800 MHz; 800 MHz freq info of UC Davis Med Center & San Juan Unified School District; LASD ELA's switch to 482 MHz; and new the CALTRANS District Map.

JUL: Gary [CASC-070] named as AE for PS-CA; Articles about problems with LA County communications & CHP involvement in their radio system design; Riverside PD & FD freqs; Corrections CDF RU-3500 ID's and freqs; San Jose FD freqs; and further LASD 482 MHz conversions.

AUG: Sacramento PD ID's & miscellaneous freq listings; Articles on Riverside SO's looking into MDT's & CHP's enforcement of polluting motor vehicles; Unmerging of San Gabriel Valley Fire Authority; Riverside SO freq & transmitter info; Riverside SO ID's; and CDF RU-3400 ID's.

SEP: San Mateo County FD station assignments; Sacramento FD station assignments; Article on Sacramento area LifeFlight; Inquiry question re: new Ventura County FD equipment; and additional LASD 482 MHz conversions.

OCT: Correction on Oceanside FD freq change; Additional LASD 482 MHz conversions & article on new LA County radio site; Foothill Fire Protection and Rancho Cucamonga info; PD & FD freq info, including AM aircraft freqs; LA Recreation & Parks Department freqs,ID's and codes; Profile on OES (Office of Emergency Services); and San Luis Obispo County systems info.

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San Jose CA 95125

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NOV: Conclusion of San Luis Obispo County systems info; San Jose PD possible use of non-police freqs; Additional correction on CDF RU-3500 assignments; Ventura County FD equipment assignments; and Article on Pomona PD's civilian volunteer program.

DEC: 1989 Index; Inquiry Channel questions on miscellaneous freq uses and fire questions; San Diego freqs; LASD 482 MHz update; Concord PD freq and info; San Joaquin County SO freqs; and San Francisco PD & FD freqs and related info.

Switching to the Inquiry Channel: From BOB [CALA-234]: Does anyone know the frequency that LA County Safety Police are using?

From DWIGHT [CALA-783]: While monitoring LAPD freqs, he heard a unit referred to as a "...mix master unit..." What is it?

From PETER [MA-155]: A few questions from the East Coast: (1) Who dispatches LA County Fire on Catalina Island? (2) Is San Diego Fire using 154.965 MHz? (3) Has Ventura County Fire got a bunch of new channels? (4) Did LAFD have HT's on 33 MHz at one time? (5) Does anyone hear LAFD or LACoFD helos on any aircraft freqs? (6) Any news on ORCO Fire's 800 MHz system? (7) Does anyone hear mobile units on 154.160 MHz or 154.220 MHz during fire storms? (8) Does anyone have a list of the BLM fire engines in Southern California? (9) How many helos does the Angeles NF have these days? and (10) Do LA County Lifeguards really have their own helos? (Yes, he watched "Baywatch" but had his scanners going full blast at the time!)

Let's switch to the Data Channel South: From LAURA [CASD-078]: First off, she would like any frequencies used by the San Diego County Lifeguards. The only one she has is 155.820 MHz, but she is unable to confirm this. Can anyone confirm and/or provide her with the correct info?

She has also incuded several freqs from San Diego County:

EMERGENCY MEDICAL SYSTEM - "STATION X" (KWH400)

| | | | | | |
|---|---|---|---|---|---|
| 155.025 | CH 1 | EMS Dispatch | 155.385 | CH 4 | Hospital Admin |
| 155.325 | CH 2 | Medic to Hospital | 155.160 | CH 5 | Medic to Medic |
| 155.175 | CH 3 | Medic to Hospital | 155.340 | CH 6 | Hospital Emergency |
| 155.235 | -- | EMS Secondary | | | |

SEARCH & RESCUE

| | | | |
|---|---|---|---|
| 155.160 | San Diego County SAR | 47.460 | Jeep SAR |
| 155.205 | East County SAR | 155.160 | Mountain Rescue Team |
| 453.100 | SD Sheriff's SAR | 155.235 | Mountain Rescue Team |
| 149.245 | National SAR | | |

PARKS & RECREATION

| | | |
|---|---|---|
| 44.680 | F-1 | Mt. Palomar |
| 44.800 | F-3 | |
| 44.880 | F-4 | |

DEPARTMENT OF FISH & GAME

| | |
|---|---|
| 151.415 | Secondary |
| 151.430 | Primary (San Diego) |

LASD 482 MHz System Update: Dispatch 12 (484.0375 MHz) is now being referred back to as Dispatch 7, with Lomita Station 17 also sharing this dispatch freq (and L-Tact 2) with Lennox Station 3. Dispatch 10 (482.9125 MHz) is still being used by Malibu, Marina & West Hollywood Stations. 483.2875 MHz is the "Emergency Trigger" ("great" listening when the EM crews "accidentally" hit the trigger button!). Countywide Tactical (C-Tact) frequencies are as follows: C-Tact 1 is 482.8125 MHz (North Bureau stations); C-Tact 2 is 482.8375 MHz (West Bureau stations); and C-Tact 3 is 483.0625 MHz (East Bureau stations). C-Tact freqs are used for want & warrant checks, and mutual aid operations involving several patrol stations.

Now let's switch to Gary and the Data Channel North: I have done some field research on Concord PD, and here is my report. I must admit that I was raised in Concord, and grew up listening to Concord PD. While most boys carried around baseball cards and memorized batting averages I carried the Radio Shack Patrolman Six radio and memorized radio codes. Oh how times have changed. Concord now has about 120,000 people with a dozen high rise buildings. The Concord PD has changed right along with the town. Their station is still on Willow Pass and Parkside, buth the academy has moved to the top of the hill along Highway 4.

The city is divided into six beats. Beat 1 is everything east of Port Chicago and extends into the downtown area. Beat 2 is a half-circle inside Concord Ave and Monument Blvd. Beat 3 is everything south of Monument to Treat Blvd. Beat 4 is the largest and covers that area north of Concord Blvd to Highway 4. Beat 5 is south of Clayton Road to Lime Ridge. It includes the Turtle Creek area. Beat 6 runs east of Bailey Road to the Town of Clayton.

The department has 140 sworn officers. Their uniform is dark navy blue. Standard sidearm is the S&W 659 (669 for the detectives). Their fleet of cars is mostly Dodges with blue and gold stripes and the new sleek aerodynamic light bars. There are also motor units and vans for the ID units and jail transportation. They have a reputation as a very professional and highly disciplined agency. A first class operation.

Concord uses Motorola radios and MDT's for their computer system. Like most CAD systems, they can run license plates and people, receive report calls, check officer status, etc. Hot calls are voice dispatched. Some of the key radio terms are described below:

X = Day Shift (7am-4:30) Y = Swings (noon-9:30)
Z = Graves (9:30-7am) M = Mary (motor units)
W = Watch Commander L = Corporals S = Sgts
A = Administrative units ID= Crime scene investigators
H and K are extras units, usually on the weekends (6pm-4am)

The letter coupled with a two digit number consists of the shift and beat(s). Thus X12 would be a day shift unit working Beats 1 and then 2. X10 would be a day shift unit working only Beat 1. X11 would be

the second car in that beat. The one digit numbers for L and S units indicate which squad they are assigned.

There are some very special terms used by Concord PD. There are 2 local gangs: the Mad Kings (TMK) and the Varrao Concord Norte (VCN). Code 100 is the accidental activation of the panic button on the MDT. "Code nine your sector..." is advising that there are no available units. To "trip" a plate or a person is to run a records check.

Their handheld radios are 4 channel, with Channel 1 (460.150 MHz) as primary, and Channel 2 (460.250 MHz) as secondary. Both are repeater frequencies, with inputs of 5 MHz higher. Channels 3 & 4 are direct (simplex). That is they transmit and receive on the same frequency to eliminate the repeater for short distance communication.

The car radios are much more sophisticated. Here is the summary chart. They are basically 16 channels with an A and B mode (switch):

| | "MODE A" | | | "MODE B" | | |
|---|---|---|---|---|---|---|
| CH | PL | FREQ | USER | PL | FREQ | USER |
| 1 | 3A | 460.150 | CPD Primary | 3A | 460.150 | CPD Direct |
| 2 | 3A | 460.250 | CPD Secondary | 3A | 460.250 | CPD Direct |
| 3 | 3A | 460.025 | CLEMARS Central | 5A | 460.025 | CLEMARS E/W |
| 4 | 3A | 460.025 | CLEMARS Direct | 5A | 460.025 | CLEMARS Direct |
| 5 | 3A | 460.150 | CPD Primary Dir | 3A | 460.150 | Primary Direct |
| 6 | 3A | 460.250 | CPD Secondary Dir | 3A | 460.250 | Sec. Direct |
| 7 | 3A | 460.100 | County Central* | 5A | 460.100 | County East/West |
| 8 | 3A | 460.425 | WCPD Primary | 3A | 460.425 | WCPD Pri/Direct |
| 9 | 3A | 460.325 | WCPD Secondary | 3A | 460.325 | WCPD Sec/Direct |
| 10 | 3A | 460.500 | PHPD Primary | 3A | 460.500 | PHPD Pri/Direct |
| 11 | 3A | 460.475 | MPD Primary | 3A | 460.475 | MPD Pri/Direct |
| 12 | 5A | 460.375 | PittPD/ECPD Pri | 5A | 460.375 | PPD/ECPD Direct |
| 13 | 5A | 460.175 | PittPD/DR Sec | 5A | 460.175 | PPD Sec/Direct |
| 14 | 5A | 460.300 | RCPD Primary | 5A | 460.300 | RCPD Pri/Direct |
| 15 | 5A | 460.325 | PoPD Primary | 5A | 460.325 | PoPD Pri/Direct |
| 16 | 5A | 460.150 | SPPD Primary | 5A | 460.150 | SPPD Pri/Direct |

CPD - Concord WCPD - Walnut Creek MPD - Martinez
SP - San Pablo PoPD - Pinole RCPD- Richmond
Pitt- Pittsburg ECPD - El Centro DR - Delta Region
County is a mutual aid channel

Now all of this is very sophisticated with much potential. But I wonder if the officers can remember which channel to switch to, espically during a pursuit. Then again, better too much radio capability than not enough!

One of the more aggressive teams is Squad Six, lead by Sgt. Dave Duge. Sgt. Duge is to police work, what Willie Mays is to baseball, except Duge is still playing. First string, no less! I went on a ridealong with him nearly 18 years ago. The man is incredible on the streets. He roams the city like the way Willie played center field. Some of his catches are incredible. You may remember him for his shootout with 2 of Patty Hearst's captors (AKA the SLA). Be sure to listen for "S-2". If your are near the Concord Pavilion on a concert night, you can listen for security on 153.995 MHz and 153.815 MHz (parking).

I spent several hours monitoring Concord PD on 2 different occasions. I did notice something very strange. I kept picking up Pleasant Hill PD on the Concord main channel. Whenever the Concord radio traffic started, it always over-rode the PHPD. I verified this on not one, but two different scanners. Yet when I questioned Concord officers, they stated they did not hear it. Anyone have any ideas?

Overall, their radio communications are very sharp and professional, but I was a little disappointed at the "action" level. Perhaps I just picked some slow shifts. On my rating scale of 1-5 (with 5 being awesome), I give *** (3.0). Try 'em.

Only a few shopping days until Christmas. I find it helps to mutter about the need for a new antenna or scanner. When I am out in the shopping malls, I stop at Radio Shack and lay another hint that "I

really could use one of these". I wish you and your family a Merry Christmas and a Happy New Year.

Several members have written lately. Here is a sampling. ANDREW [CASJ-001] listed his favourite channels for San Joaquin SO:

| | | | |
|---|---|---|---|
| 453.650 | CH 1 Net A | 154.070 | San Joaquin CoFD Coordin |
| 453.375 | CH 2 Net B | 154.130 | San Joaquin CoFD Dispatch |
| 453.325 | CH 3 Net C (County Jail) | 159.150 | Escalon Police |
| 460.125 | TAC 1 500,600,900 Code | 154.950 | Manteca Police |
| 460.350 | TAC 2 | | |

CLIFF [CAAL-029] sent in a list of Bay Area channels. It's a long list so here goes:

| | |
|---|---|
| 488.8125 | San Francisco County Sheriff (Civil Transportation) |
| 488.8125 | San Francisco County Sheriff (City Jail) |
| 488.6875 | San Francisco County Sheriff (County Jail Operations) |
| 488.8375 | San Francisco County Sheriff (City Jail/Court Security) |
| 45.100 | San Francisco PD MOBILE 1 (H, G, I) |
| 45.140 | San Francisco PD MOBILE 2 (C) . |
| 45.580 | San Francisco PD MOBILE 3 (A, B) |
| 45.460 | San Francisco PD MOBILE 4 (E, F) |
| 45.300 | San Francisco PD Academy |
| 460.225 | San Francisco PD PIC 1 (C, F, G, H, I service only) |
| 460.125 | San Francisco PD PIC 2 (D service & admin) |
| 460.500 | San Francisco PD PIC 3 (A, B, E service only) |
| 460.075 | San Francisco PD PIC 4 (A, B, E, F admin only) |
| 460.450 | San Francisco PD CH 5 (Tow Desk) |
| 460.350 | San Francisco PD CH 6 (Demonstrations & Critical Incident) |
| 460.525 | San Francisco PD CH 7 (Tactical/Special Ops/Bureau TF Muni Police & Narcotics Officers) |
| 460.550 | San Francisco PD CH 8 (C, G, H, I admin only) |
| 460.025 | San Francisco PD CH 9 (Mutual Aid/Repeater Gang TF) |
| 460.025 | San Francisco PD CH 10 (Mutual Aid/Simplex Gang TF) |

SERVICE - Out of cars. Talk to Dispatch
ADMIN - Talk to Stations, run 10-28's & 10-29's)
SOBTF - Special Operations Bureau Task Force

| | |
|---|---|
| 154.920 | CLEMARS |
| 155.550 | Narcs & Vice (?) |
| 419.250 | Robbery Apprehension Teams (RAT) |
| 856.4875 to 858.4875 | (trunked 800 MHz) |

| | | | | |
|---|---|---|---|---|
| 488.3625 | San Francisco FD | CONTROL | 1 | (Dispatch Division 1) |
| 488.5625 | San Francisco FD | CONTROL | 2 | (Dispatch Division 2) |
| 488.7625 | San Francisco FD | CONTROL | 3 | (Dispatch Division 3) |
| 489.1625 | San Francisco FD | CONTROL | 4 | (Fireground On Scene) |
| 489.1875 | San Francisco FD | CONTROL | 5 | (Paging Dispatch Repeat) |
| 489.1125 | San Francisco FD | CONTROL | 6 | (Disaster Communications) |
| 154.280 | San Francisco FD | CONTROL | 7 | (State Fire White 1 Mutual Aid) |
| 46.460 | San Francisco FD | CONTROL | 10 | (Low Band Dispatch NOT USED) |
| 157.100 | US Coast Guard | | | (Fireboats) |

(Reserve Equipment C/O 17 Engines and 8 trucks)
All hose tenders are now in reserve status.

Division 4 is located at the San Francisco International Airport (SFO)

SFFD Helmet Color Codes are as follows:

Red & Black - Truck Crews
Black & White - Chief Operators
White - Battalion & Division Chiefs
Black - Engine Crews
Blue - Arson Squads

Type of Structures (Codes)

1 - Heavy Steel
2 - Re-inforced Concrete
3 - Brick / Masonry
4 - Metal Support
5 - Wood Frame

JERRY [CAAL-026] also wrote with a long list of many new and unique frequencies from the SF Bay Area. You can look forward to his list next month. It's truly great stuff!

With that, we will now clear all frequencies for routine traffic & the PS-CA staff would like to wish everyone the best of holiday cheers and a productive 1990...KLI385.

# RAILROADS

**Gary L. Sturm and Bill Farmer, Editors**

**Send information about railroad frequencies and their uses, radio system details, and related questions to:**

**Bill Farmer, P.O. Box 1838, Thousand Oaks, CA 91358-0838**

Well, here we are at the end of another year of RCMA Railroads Columns. In fact, it's the end of a decade! As usual in December, we'll include a brief summary of the articles that appeared in each month's column during the past year. Also as usual, we'll offer a detailed index, by railroad, to anyone who requests one and includes a self-addressed stamped envelope. This index covers RCMA Railroads Columns from January 1986 through December 1989. The new DeskJet printer makes it easier to print on both sides of the paper, so we'll be able to keep it under one ounce and a 25 cent stamp will be sufficient.

During the past month we received from our anonymous contributor in Philadelphia, a set of public timetables issued by Amtrak for its service to Atlantic City, NJ, which started last May. We noted in last month's column that 160.920 is Amtrak's road channel between Philadelphia and Atlantic City.

## SAN DIEGO TROLLEY

by BOB (CA-LA-234)

My observations of the San Diego Trolley radio system differs slightly from that in the Oct. RCMA Railroads column:

| | |
|---|---|
| 160.665/160.935 | Ch 1 South Line |
| 160.380/160.905 | Ch 2 East Line |
| 160.710/ ? | Ch 3 appears to be Yard channel |
| 161.565 | Ch 4 Maintenance of Way |

I can hear the outputs from my location in southern Los Angeles County. At various times, different combinations of two channels have been simulcast. I have also heard reference made to channel 6; does anyone know anything about this?

## LOS ANGELES METRO

by BOB (CA-LA-234)

Here are my observations of the L.A.-Long Beach light rail (Metro Blue Line) radio system (all call signs WNBY 212):

| | |
|---|---|
| 160.935 | Test train operations "Control, Unit Lxx" |
| 161.265/160.695 | "Base 6, Unit 6xx" |
| 160.725 | "Base 7, Unit 7xx" |

## GRAND CANYON RAILWAY

A nonmember wrote to us from Arizona that he was testing an AR-2515 receiver on September 17, which happened to be the day of Grand Canyon Railway's inaugural run for the press. In letting the unit scan through the 2000 channels that are pre-programmed into it at the factory, he heard the train using 862.4875 MHz. They were getting the train ready to depart Williams on its first trip. Later he heard a non-railroad user making a telephone call on the frequency. Later still he heard the train reporting its location as it moved north up the line. Steam engine 18 was on the point and they added two diesels to the rear of the train as it left Williams. At Anita they had a water truck waiting to replenish the supply in the tender. Railway personnel were also heard making telephone calls during the day.

Police Call lists this frequency as being for use by trunked systems, and the above description seems to indicate that the Ry. is indeed using a trunked system. Other frequencies to try might be 860.4875, 861.4875, 863.4875, 864.4875, and 865.4875. Our Correspondent speculates that the base must be on Bill Williams Mountain.

## MINNESOTA INDUSTRIALS & TOURIST RAILROADS

by MINNESOTA RADIO HOBBYISTS (MN-057)

Anderson Window Walls Bayport, MN:

42.16, 42.96, 42.98, 462.300

Dairyland Power Co-Op (DAPX) La Crosse, WI:

37.52, 37.62, 153.560, 153.710, 158.160, 451.025, 451.050

Farmers Union Central Exchange (FCEX) St. Paul, MN:

154.570

Grain Terminal Association (GTAX):

151.805, 464.375

General Mills Co. (GMIX) Minneapolis, MN:

158.310

Great Lakes Coal & Dock Co. (GLDX) St. Paul, MN:

151.775 Intra-plant switching

Hallett Dock Company Duluth, MN:
151.775

Honeymead Products (HONX):
151.625

Ironworld USA Chisholm, MN:

453.225/458.225 IRRRB repeater

Lake Superior & Mississippi (Lake Superior Museum of Transportation):

160.380 Road/Yard

LTV Steel/Erie Mining Co. Railroad (EMCX):

152.990 Road/Yard
152.900 Pit locomotives?

Midwest Bottle Gas (TRUX) Foshay Tower, MN:

43.06

Minnesota Transportation Museum (MNTX):

161.355 Road/Yard

North Star Steel St. Paul, MN:

153.170, 153.200

Ottertail Power Co. (BSPX) Fergus Falls, MN:

47.94, 47.98

Peavey Company (PEAX) Shakopee, MN:

469.5625 Intra-plant switching

Port Bunge Savage, MN:

464.975

Port Cargill Inc. Savage, MN:

151.865, 154.515, 154.540, 461.275

Reserve Mining Co. Railroad (RMNX):

153.020 Road/Yard
461.100 Yards & docks repeater
451.950/456.950 Repeater link
35.10, 43.06, 153.050, 154.570, 154.600, 158.385, 158.460, 451.950

River Terminal St. Paul, MN:

153.290, 464.525

St. Paul Ammonia Products:

464.375

USX Minntac/U.S. Steel (USSX) Mountain Iron, MN:

152.990
151.925 West pit locomotives?
152.960 West pit locomotives?
154.490 East pit locomotives?
451.825/456.825
452.025/457.025

United Power Assoc. (UPAX) Elk River, MN:

153.605, 158.160

INDEX TO THE RCMA RAILROADS COLUMN—1989

A detailed index by railraod, covering 1986-1989, is available from the column editors upon request and a SASE. Following is a summary of the articles which appeared each month:

JANUARY:
San Diego, Calif.
AAR Radio Frequency Assignment Plan

FEBRUARY:
Canada
Minnesota

MARCH:
West Coast frequency list

APRIL:
Wisconsin Central
Montana Rail Link
Dallas-Ft. Worth
Northwestern Wisconsin

MAY:
Union Pacific Road Channels
Oklahoma

JUNE:
Fox River Valley
Toledo, Peoria & Western
BC Rail
Minnesota
Advanced Train Control System

JULY:
Union Pacific Road Channels
Rio Grande Ski Train
Fox River Valley
Derailment Cleanup Services
Columbia, South Carolina

AUGUST:
New Santa Fe Channels
New York City and Vicinity
U.S. Sugar Company

SEPTEMBER:
Santa Fe
Los Angeles Metro
Short Line Data

OCTOBER:
San Diego Trolley
Santa Fe
Montana Rail Link
Battle Creek, Michigan
Joplin, Missouri
Denver & Rio Grande Western PBX
Advanced Train Control System

NOVEMBER:
New Amtrak Road Channel
Short Line Data
Vacation Report

DECEMBER:
San Diego Trolley
Los Angeles Metro
Grand Canyon Railway
Minnesota Industrials
& Tourist Railroads

Next month we'll start off the New Year (the new decade!) with an outstanding frequency list by Timothy (MO-070) covering the entire state of Colorado. Until then we wish you all the happiest of holiday seasons.

—Gary & Bill

# SPORTS COMMUNICATIONS

**Send frequencies and other information relating to monitoring sports events to:**

**Lynn Burke (VA-114), 285 Westwind Drive, Newport News, VA 23602-4447**

Hi folks and welcome to December's column. I'm running late this month because of illness, so I'll have to postpone the yearly index until January's column. We have a couple of contributions here that I want to get into print, so that will have to suffice for this month's effort.

First are some frequencies and channel plans for the Hubert H. Humphrey Metrodome in Minneapolis, contributed by Mike (MN-041). The other are NASCAR administrative frequencies contributed by Corey (GA-112), the 12-year-old from Georgia mentioned in Bill Mauldin's column recently.

HUBERT H. HUMPHREY METRODOME

| | | | |
|---|---|---|---|
| Metrodome radios: | F1 | 155.025 (R) | Stadium commission/first aid/concessions |
| | F2 | 155.025 (S) | Talk around |
| | F3 | 153.965 (S) | First aid (secondary) |
| Security radios: | F1 | 464.575 (S) | Sims security (secondary) |
| | F2 | 461.050 (S) | Sims security (primary) |
| Mn. Twins radios: | F1 | 464.775 (S) | Baseball team's security |
| | F2 | 461.050 (S) | Sims' security |
| Mn. Vikings radios: | F1 | 464.375 (S) | Private suites staff (all events) |
| | F2 | 461.050 (S) | Sims' security |
| Mn. Gophers radios: | | 464.550 (S) | Ushers and police |
| | | 155.775 (S) | Coordination of shuttle buses from campus |
| Traffic control | | 460.250 (R) | Minneapolis police F4 |

Sims Security is used at most major events and also can talk on 155.025 to relay information between radio systems. The Minneapolis traffic control agent in charge also has a Metrodome radio on 155.025 so they can communicate with security, parking lot, etc.

Just in case, the Twins are the baseball team, the Vikings are the football team and the Gophers are the University of Minnesota football team.

MET SPORTS CENTER

The Minnesota North Stars hockey team uses 461.5875 for security. There's also a license on 154.570 with no usage noted.

CANTERBURY DOWNS

This is a horse racing track located in Shakopee, Mn. A possible paging frequency is 1548.460 (WNCE810). Eight split channel frequencies are licensed under the call of KB67457. They are 461.1625, 461.1875, 461.2125, 461.2625, 461.2875, 461.3125, 461.3375 and 461.3625.

That's it from Minnesota. Thanks to Mike for this comprehensive profile.

NASCAR

We've run these frequencies before, but I want to thank Corey for contributing them. I'm not sure scanners had been invented when I was 12, and I spent my time listening to AM radio played as loud as my eardrums could stand it!

F1 - 464.300 F2 - 464.775 F3 - 464.900 F4 - 469.500 F5 - 462.025
F6 - 467.025 Scoring - 467.800.

That's all for this month, unfortunately. As I sit here, it seems like I'm typing with one hand and blowing my nose with the other, and coughing in between. And since we need to get this in the mail today, we'll wait until next month to do the index. Happy Holidays to all and thanks for all of your contributions this year.

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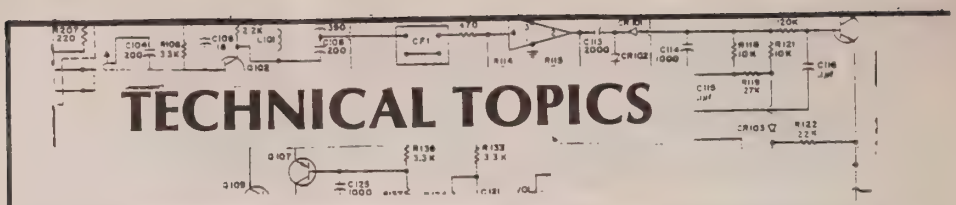

# TECHNICAL TOPICS

Send all equipment reviews, technical articles, technical tips, and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions to:

**Alexander Woollcott (GA-080), 102 Lacey Lane, Winder, GA 30680**

Because it will take at least two additional columns to complete printing the results of the Technical Topics survey, I wanted to take a break and use this column to catch up on some mail and to discuss some technical matters of general interest. I received a letter from Russ (MI-002) who reported receiving a fair amount of low-band skip from locations he believed to be in Georgia. Russ asked my assistance in identifying these stations. The frequencies Russ reported monitoring were 37.54 (possible call sign of KIN382 -- Albany was mentioned); 37.54 (Reynolds was mentioned); 37.54 (a third station, with a call sign KBA670) and 37.50 (Rome and Waverly were mentioned). These <u>are</u> all towns in Georgia. I set up my tape recorder to monitor these two frequencies over the course of an eight hour period at my monitoring site in north Georgia, but was unable to pick up any local activity on those channels. The names of the cities you mentioned are all in Georgia and, accordingly, I have forwarded this information on to our associate editor for Georgia. In addition, I consulted two commercial frequency guides, but found nothing listed for these two frequencies. I would suspect that the traffic you monitored was general utilities traffic -- for example a phone company or power company. Our state editor should be able to investigate these frequencies in further depth. Sorry I could not be of more help.

I have about given up on the idea of personally arranging for the "tape swap" but am pleased to report that Curtis Harbin, our New Products Editor, has expressed a possible interest in handling this. Because my background work for this column requires that I spend a fair amount of time researching and testing, I do not feel that I would have the time to devote to an effective tape swap. I must confess that I am still intrigued by the wide range of opinions on the legality of a tape swap. Dave from Nevada City, California, (CANV-004) wrote enclosing some interesting information regarding this issue. At the time of his letter Dave had been with RCMA for about four months and into monitoring for about two years. Dave pointed out that the legal issues that might arise involve not only federal but also state law concerns. Dave enclosed a copy of Section 632 of the California Penal Code entitled "Eavesdropping on or recording confidential communications."

I have received several inquiries from several members wanting additional information on improving radio reception and performance for apartment dwellers, who are restricted from putting up outside antennas. My first basic piece of advice is to approach your resident manager (or, better yet, the landlord or property owner) to request a variance or an exception to any rule prohibiting putting up balcony or rooftop antennas. Your chances for getting an exception are greatly increased if you present yourself as a professional hobbyist and if you can demonstrate that the antenna system (including the cable) you would like to install will be fairly unobtrusive and won't be a lightning hazard (ground it!). In other words, if you can find a location on the apartment rooftop to install the antenna and a way of feeding the cable down to your apartment without the apparatus being visible to other apartment dwellers or to those on the ground, you have a better shot of getting such an approval. This means doing your research <u>before</u> going to see the resident manager or owner. Look over the layout of your apartment building closely and in particular look at the structure of the roof. If you have access to the roof, by all means take a look. Many complexes have gravel topped flat roofs which provide an ideal space for erecting an antenna system. On these flat-topped roofs you can often install the antenna far enough from the edge of the building so that no one can see it on ground level.

Another approach (not without risks, however) is to get to know your apartment's maintenance employees well and seek their permission to put up your antenna. Many rooftops are accessible only to those with the proper keys and that typically includes only the resident managers, the owners and the maintenance personnel. Being friends with a maintenance person, preferably the head of operations, may be the surest way to get your outside antenna up at an apartment complex.

Since the no outside antenna rule is designed primarily to prevent apartment dwellers from installing ugly TV type antennas on the rooftops or their apartment balconies, there would seem to be less concern with VHF and UHF omnidirectional antennas, which are typically quite inconspicuous. Also this rule would not seem to apply to installing antennas in attic space or crawl space below roof level but above the top apartment floor. I have found that most apartment buildings have this type of space immediately below roof level. Once again, this space is generally accessible to only the manager or the maintenance personnel, so you need cooperation from either of these sources. Remember that the effectiveness of an antenna erected inside an attic will depend entirely on the amount of conductive material (such as wiring, metal framing. ducting and roofing materials, etc.) between the outside and your antenna. Your best bet will be buildings composed primarily of wood and non-metallic, synthetic fiberboard frames.

I am not offering these suggestions from an abstract perspective. I know they really work. As a law student and as a young practicing attorney, before buying my first home, I lived in several modern, upscale apartment complexes that each prohibited the installation of outdoor antennas on balconies or anywhere on the buildings. In each case, I was able to satisfactorily put up some form of antenna system. In one case, I got an exception to put a directional antenna on my balcony. In another case, I made friends with the maintenance manager who gave me a key to the rooftop of the complex where I installed three antennas, none of which were visible from anywhere other than the rooftop itself. The maintenance person told me that the owners and the resident managers never ventured up to the rooftop, so that my secret was safe! The only tricky aspect of the process was the cable running down the side of the building to my apartment. I was able to take care of this by spray painting the cable a light brown color so that it matched the color of the building. In my last apartment complex, the resident managers gave me permission to install four antennas in the attic space above my apartment (I was on the fourth floor, immediately below the attic level). They even let me drill holes through the ceiling for the coaxial cable. The building was made completely of wood and my reception was wonderful.

So, my message to you apartment and condo dwellers is not to assume that you are out of luck if your complex prohibits outside antennas. A related problem arises in subdivisions that have restrictive covenants against outside antennas. While the notion of being subject to such a restriction is revolting to me, I understand that such restrictions are increasingly common. Restrictive covenants in subdivisions are quite difficult to circumvent.

Now, a few more suggestions for apartment and condo dwellers. Because most apartment complexes and condominiums are located near cities, such settings are likely to include a great deal of radio interference, particularly intermodulation interference. I discovered a technique that virtually eliminated the intermodulation interference I was having on my Regency MX7000 when I lived in an apartment close to the Atlanta city limits. The MX7000 was virtually smothered with interference when I used the ICOM discone and even when I used a small attachable whip. My apartment complex as close to a couple of large radio and TV towers as well as near several high-powdered two-way radio transmission towers. At the time I had my ICOM discone set up on the apartment balcony. By simply switching to a directional antenna (I used a five element Cushcraft model) and pointed it away from most of the sources of interference, I eliminated 90% of the intermodulation interference and was able to copy stations much farther away than by using the discone or the whip. Surprisingly, my reception was improved even in directions away from the orientation of the directional antenna.

So, if you are an urban or near-urban apartment dweller and you want to greatly increase your listening range, switch to a directional antenna. The Grove Enterprise Scanner Beam unit is perfect for this purpose.

Apartment and condo dwellers are often plagued by electrical and electronic interference. One technique that I found to be useful in eliminating this interference was to ground my receivers and to obtain a high quality static guard and surge protector. The cheapie $12.00 units will not do the trick, however, so be prepared to spend about $40.00 for a good surge protector. If other interference is a serious problem, consider using an external filter. Hamtronics, I believe, still markets a combination filter and amplifier. Based on Hamtronics' general reputation, the product is likely a good one.

# BOOK REVIEW

### NEW HAMPSHIRE SCANNER GUIDE
a review by Bill Mauldin

Bob Coburn and Official Scanner Guide released the fourth edition of the NEW HAMPSHIRE SCANNER GUIDE this month. Bob and his staff have continued the outstanding coverage of New England with the release of this new, updated 280 page directory. Like past editions, nothing has been omitted!

The fourth edition has been completely revised, includes 7,455 listings, and has actually been increased by more than 1,000 frequencies over the third edition. This new edition details the new New Hampshire State Police low band frequencies, the 800 MHz Marine Control Repeater system, new GMRS channels, and updates on the State Police Troops and Special Operations. There is even a special section on Walt Disney World (for those yankees planning a visit to Florida).

The New Hampshire, fourth edition, is available from The Official Scanner Guide, Post Office Box 712, Londonderry, NH 03053 for $17.95 plus $2.05 for shipping.

RCMA thanks the publishers of the NEW HAMPSHIRE SCANNER GUIDE for making the directory available for review.

### THE LATEST INTELLIGENCE
an announcement by Bill Mauldin

LATEST INTELLIGENCE by James Tunnell is a concise international directory covering communications codes and descriptions used by government, law enforcement, military, and other agencies. The book contains 15,000 entires describing codes, tools, and abbreviations used by agencies worldwide. LATEST INTELLIGENCE was written with the assistance of the U.S. Department of Defense, Interpol, NASA, and various law enforcement agencies in the United States, Asia, and Europe.

The object of the book is to provide fundamental information on subjects discussed in law enforcement, military, and government radio communications. The publication is a useful, working, everyday tool for professional and hobbyist alike. It is a ready made reference tool for the shortwave listener and the scanner buff. Special thanks was given to Bob Grove of Monitoring Times, and to Robert Kelty of Mobile Radio Resources for their insight, information, and advice.

The announcement that was received indicated this publication will be available soon. We look forward to reviewing the book for you, when received. If you would like more information on LATEST INTELLIGENCE, write to James E. Tunnell, Box 3172 Ygnacio Valley Station, Walnut Creek, CA 94598.

# RCMA NEW MEMBERS LIST

**Please Note**: New members who leave blank the `permission to print full name and address' section of the RCMA membership application form will see only their first name in the above list. This is true also for new members whose request for membership was not via an application form. RCMA will publish a member's name only if we have written permission on file.—Editor

AZ 103 - RUSSELL WENTWORTH;2304 N YUCCA ST;CHANDLER;AZ;85224
CACC047 - RON KIRBY;303 E STREET;ANTIOCH;CA;94509
CAFR016 - ED MELIKIAN;1122 W SAN BRUNO;FRESNO;CA;93711
CALA799 - MICHAEL --LAST NAME AND ADDRESS WITHELD BY REQUEST
CAOR384 - F H TAYLOR;33495 SPINNAKER DR;LAGUNA BEACH;CA;92677
CAOR385 - KEVIN LINDSAY;12841 AMETHYST ST;GARDEN GROVE;CA;92645
CARI073 - B HARDTKE;1490 E 6TH ST #2;BEAUMONT;CA;92223
CARI074 - WALLACE R WORTMAN;41510 LOMAS ST;HEMET;CA;92344
CASC080 - HARON J --LAST NAME AND ADDRESS WITHELD BY REQUEST
CASD107 - FRED J REVELLO;P O BOX 27583;SAN DIEGO;CA;92128
DC 020 - GABE --LAST NAME AND ADDRESS WITHELD BY REQUEST
FL 298 - HOWARD GIMBEL;10817 MAGNOLIA ST;RIVERIEW;FL;33569
FL 299 - J L CARDOZO;366 S BEE RIDGE RD, STE 110;SARASOTA;FL;34233
FL 300 - TOM KENNELLY;7344 WOODGLEN CT;ORLANDO;FL;32811
FL 301 - WADE WYATT;8550 NW 49TH DRIVE;CORAL SPRINGS;FL;33067
FL 302 - JOHN B HEATON;2000 E BAY DR COL VIL #149;LARGO;FL;34641-2331
FL 303 - MATTHEW LITWIN;1161 SW 74TH TERR;PLANTATION;FL;33317
IA 066 - TIM BLONG;609 3RD AVE;CHARLES CITY;IA;50616
IA 067 - PERRY BURHOP;R R 1 BOX 139;OXFORD JUNCTION;IA;52323
IL 437 - DARYL & SHARON --LAST NAME AND ADDRESS WITHELD BY REQUEST
IL 438 - MIKE HUTH;822 N SPRING;LA GRANGE PARK;IL;60525
KS 054 - STEVE --LAST NAME AND ADDRESS WITHELD BY REQUEST
LA 057 - HENRY CANCIENNE;RT #1 209 BELLEVUE;LOCKPORT;LA;70374
LA 058 - DAVID BULLINGTON;2556 HUDSON PL;NEW ORLEANS;LA;70131
MA 228 - BENJAMIN --LAST NAME AND ADDRESS WITHELD BY REQUEST
MA 229 - DIMITRIS --LAST NAME AND ADDRESS WITHELD BY REQUEST
MA 230 - BILL PRICE;22 MAYFAIR ST;LYNN;MA;01904
MA 231 - RICHARD H MOONEY;64 BRIDGE ST;HATFIELD;MA;01038
MI 224 - KEVIN --LAST NAME AND ADDRESS WITHELD BY REQUEST
MI 225 - BRUCE K --LAST NAME AND ADDRESS WITHELD BY REQUEST
MN 071 - BOB MORRIS;350 OAKWOOD DRIVE UNIT 23;NEW BRIGHTON;MN;55112
NH 037 - HARROLD R GILL;96 LEDGE ST;NASHUA;NH;03060-3155
NJ 299 - MICHAEL SICO;14 SALLY ST;BLOOMINGDALE;NJ;07403
NJ 300 - LEONARD S JOHNSON;5 HILLSIDE AVE;LONG BRANCH;NJ;07740
NY 472 - DANIEL --LAST NAME AND ADDRESS WITHELD BY REQUEST
NY 473 - JON --LAST NAME AND ADDRESS WITHELD BY REQUEST
NY 474 - LASHAUN CARR;158 HOPPER ST;WESTBURY;NY;11590
OH 247 - MICHAEL CREMEANS;116 E COOKE RD #D;COLUMBUS;OH;43214
OH 248 - DENNIS D DEAN;7735 TAYLORSVILLE RD;HUBER HGTS;OH;45424
OH 249 - SCOTT STEWART;5170 TIFFANY DR;ZANESVILLE;OH;43701-9735
OR 099 - SCOTT REIFF;2494 2ND ST;BAKER;OR;97814
PA 289 - GEORGE E --LAST NAME AND ADDRESS WITHELD BY REQUEST
PA 290 - OTTO L --LAST NAME AND ADDRESS WITHELD BY REQUEST
PA 291 - JOSEPH PETZAK;1829 E HAZZARD ST;PHILADELPHIA;PA;19125
SD 014 - STEVE KELLER;P O BOX 432;RAPID CITY;SD;57709
TN 057 - P --LAST NAME AND ADDRESS WITHELD BY REQUEST
TX 254 - H M --LAST NAME AND ADDRESS WITHELD BY REQUEST
TX 255 - ROBERT E --LAST NAME AND ADDRESS WITHELD BY REQUEST
WA 105 - STEVE SZEKELY;10636 N E 154TH PL;BOTHELL;WA;98011— 488-9738
WA 106 - MICHAEL J BENEDETTI;5818 26TH N W;SEATTLE;WA;98107
WI 112 - BILL --LAST NAME AND ADDRESS WITHELD BY REQUEST
WI 113 - JOHN J MCCOY JR;950 S HUDSON AVE;STURGEON BAY;WI;54235
WI 114 - JOHN D MILLER;S 51 W 33361 HWY GE;DOUSMAN;WI;53118
WI 115 - GARY R HAHN;5619 S 25TH ST;MILWAUKEE;WI;53221

The RCMA telephone number is (714)545-9551. It's `manned' by an answering machine, and while it's been established for RCMA members, its use is limited. You may leave a message concerning delivery or renewal problems; you cannot use it to request club information or order back issues. Appropriate response will be made by letter or postcard, not by telephone. Any call regarding a membership problem MUST be accompanied by your membership number.

Please remember that it is a toll call, so be sure before you dial that a written communication won't do just as well. Do not call regarding a missing newsletter before the 20th of the month of the issue in question. **Your message will be relayed to the appropriate person, but your call will not be returned.**

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**The Spectrum Analysis Center,** P.O. Box 485, Placenta, CA 92670 has placed an R.C.M.A. sub-board on their bulletin board. The @ symbol puts you in immediate access to it. Late breaking news is there.

The phone number (714) 532-2300
300 baud setting is 300-N-8-1 N
1200 baud setting is 1200-N-8-1 N

## Regional Communications Network

Box 83
Carlstadt, NJ 07072-0083

R.C.N is a 2-way group of radio enthusiasts interested in monitoring Radio Communications, from public safety to satelites

Members use 2-way repeater systems that operate in the NY/NJ area.

For more information contact "Newwork Director" at above address

## GET PUBLISHED!

RCMA is still looking for photographs that can be used on the cover of the newsletter. Any member can submit these, and if one gets used it will earn a free two-month extension of the submitter's membership.

For reasons of reproduction, photos must be 8x10 or 5x7 black & white and in sharp focus. Vertical compositions (`portrait framing') are more likely to be used, unless the horizontal can be cropped to vertical.

Send pictures to Hugh Stegman, at the address shown above the BELOW 30 MHz column. Mark them `Press photos~Do Not Bend' and put in some cardboard. Sorry, photos cannot be returned.

### Want to Get Your Newsletter 1st Class?

**Getting your RCMA Newsletter mailed 1st class may be your answer if you have consistently slow or erratic service with 3rd class mailing. 1st class costs a lot more~that's why we use 3rd to begin with~but if you can spend the greater amount, here's how:**

**Check your mailing label for the number of months left on your current membership. (If it says 10/89, for example and you are reading this in June, then there are 3 months remaining.) Multiply the number of months by the amount of 88 cents. Make out a check or M.O. for that amount to RCMA, Inc. Send to: RCMA General Manager, P. O. Box 542, Silverado, CA 92676. Mail it with enough time to allow its delivery before the end of the month.**

# For Your Information—

## MEMBERSHIP CARDS AND BADGES

RCMA has no badges, decals, or membership cards for sale or distribution. The label on your newsletter is your membership card. While other clubs may have gimmicks or commercial good deals, our 'good deal' is your newsletter. You determine its content because you write it.

## MAILING PROCEDURES

The newsletter, which is mailed bulk rate each month under a 3rd class permit, has a cover date for the following month. This practice is followed so that the U.S. Post Office can deliver your issue no later than the first of the month designated on the cover.

New members whose applications are received before the end of the month will begin receiving the newsletter the following month. The first issue will be dated the month after that—as described above.

## RENEWAL PROCEDURES

One month before your membership—and therefore your newsletter delivery—is due to expire, you will receive a renewal notice in the form of a postcard. It contains all the information you need to continue receiving the newsletter. Please return this card with your renewal check/money order.

Renewal checks and new membership applications received by RCMA's General Manager, P.O. Box 542, Silverado, CA 92676, are processed for deposit on a weekly basis. Actual computer updating is done at the end of each month. If your check/M.O. is received after this cut-off date, you will miss the next issue of the newsletter and your new renewal date will be moved back accordingly.

## PRORATED MEMBERSHIPS

Due to postage costs and other considerations, membership applications or renewals for any sum less than the current rate are prorated accordingly. This means that the renewal date will be due in less than a year. Please do not not send more money to finish the year; just renew when the prorated date comes up.

Also because of postage costs, RCMA cannot comply with member requests to supply back issues free of additional charge (see the monthly Calendar section regarding ordering of back issues). If a late renewal results in a missed issue, the newsletter can be ordered from RCMA's General Manager.

## ADDRESS CHANGES

MEMBER notification of address changes are also updated at the end of each month. If a member initiated address change notice arrives after the cut-off date, the mailing label will not reflect the new address until the following month. In this case, two things happen. The first is that the newsleter will still go to the old address and the USPS will return it to RCMA at a cost to us of 30 cents. The second is that you will have to pay 'back issue' costs to obtain that particular copy of the newsletter. So, please try to notify us as far in advance as possible. It's to your benefit—and RCMA's.

## SPECIAL FREQUENCY REQUESTS

Get in touch with your local RCMA chapter (see monthly Calendar section for locations) or use the Contact/Info Wanted column for frequencies in your area. RCMA is not yet set up for national distribution of frequencies, although ultimately the 'big picutre' could include copies of the FCC and IRAC data bases, a fast computer and software to select and sort in any order.

## DISCLAIMER

RCMA, Inc. has non-profit incorporation status in the state of California as a club for scanner enthusiasts. Neither RCMA or its newsletter are affiliated with, participate in the management of, or are responsible for, any other organization or publication. This includes POLICE CALL, put out by RCMA's long-time good friend, Gene Hughes. Queries about POLICE CALL cannot be answered by RCMA.

PLEASE REMEMBER—when writing to RCMA for any reason, include your membership number. Use it on your correspondence, checks, or money orders. RCMA tries hard to be responsive to your questions/problems. Using your membership number when you write helps us be of help to you.

**The RCMA Board of Directors supports the policy of not printing certain federal law enforcement frequencies, e.g., Secret Service, FBI, Customs, DEA. Agreement with this policy has been reinforced by a membership survey.**

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications. RCMA was founded in May 1975 and is a Full Member of the Association of North American Radio Clubs (ANARC).

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The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



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